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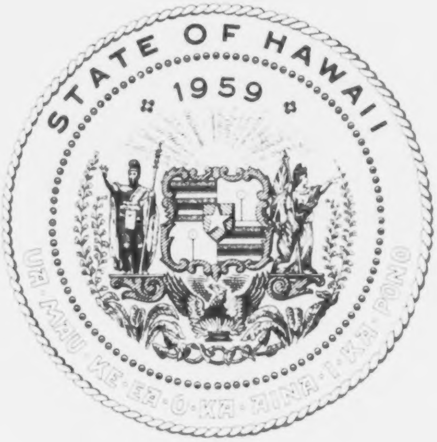

1959

THE STATE OF HAWAII
DATA BOOK

1980

A STATISTICAL ABSTRACT

DEPARTMENT OF PLANNING AND ECONOMIC DEVELOPMENT
NOVEMBER 1980

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This report was prepared by Robert C. Schmitt, State Statistician, with the assistance of Lynn Y. S. Zane, Roy H. Tsumoto, and Sharon Nishi. The camera-ready copy was typed and proofread by Irene S. Fujimori, Judy F. Noda, and Helen T. Nagafuchi. All are members of the DPED's Research and Economic Analysis Division, headed by Dr. Richard Y. P. Joun. The maps were drawn by Stewart A. Wastell, illustrator in the DPED's Planning Division. Editing and printing arrangements were handled by the DPED's Information Office.

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FOREWORD

By George R. Ariyoshi
Governor, State of Hawaii

Accurate, timely and substantial information is essential to sound decision-making. The State of Hawaii has long recognized that orderly State growth and planned prosperity require a continuing, efficient organization of statistical data and other information into forms which are easily used and readily available to all who need them. This State of Hawaii Data Book 1980 is the latest example of the State Administration's constant effort to provide and improve this important service to Hawaii's citizens.

The Data Book is invaluable for Government administrators. It is vital to all agencies, companies, organizations and individuals who carry out a great variety of forms of research in the Islands and overseas. It is very useful to other citizens who have only an occasional need for accurate statistics. It is a book which, thanks to the professionalism of its compilers, can be depended upon, and upon which thousands do depend. And it is only one--although perhaps the best one--of a large number of excellent data sources which Hawaii makes available.

Through such reference works, Hawaii is able to go about its myriad tasks with confidence that its information base is sound. This State of Hawaii Data Book 1980 is one of many proofs we have that our people know what they are doing, and where they are going, and are reasonably certain they can achieve their goals.

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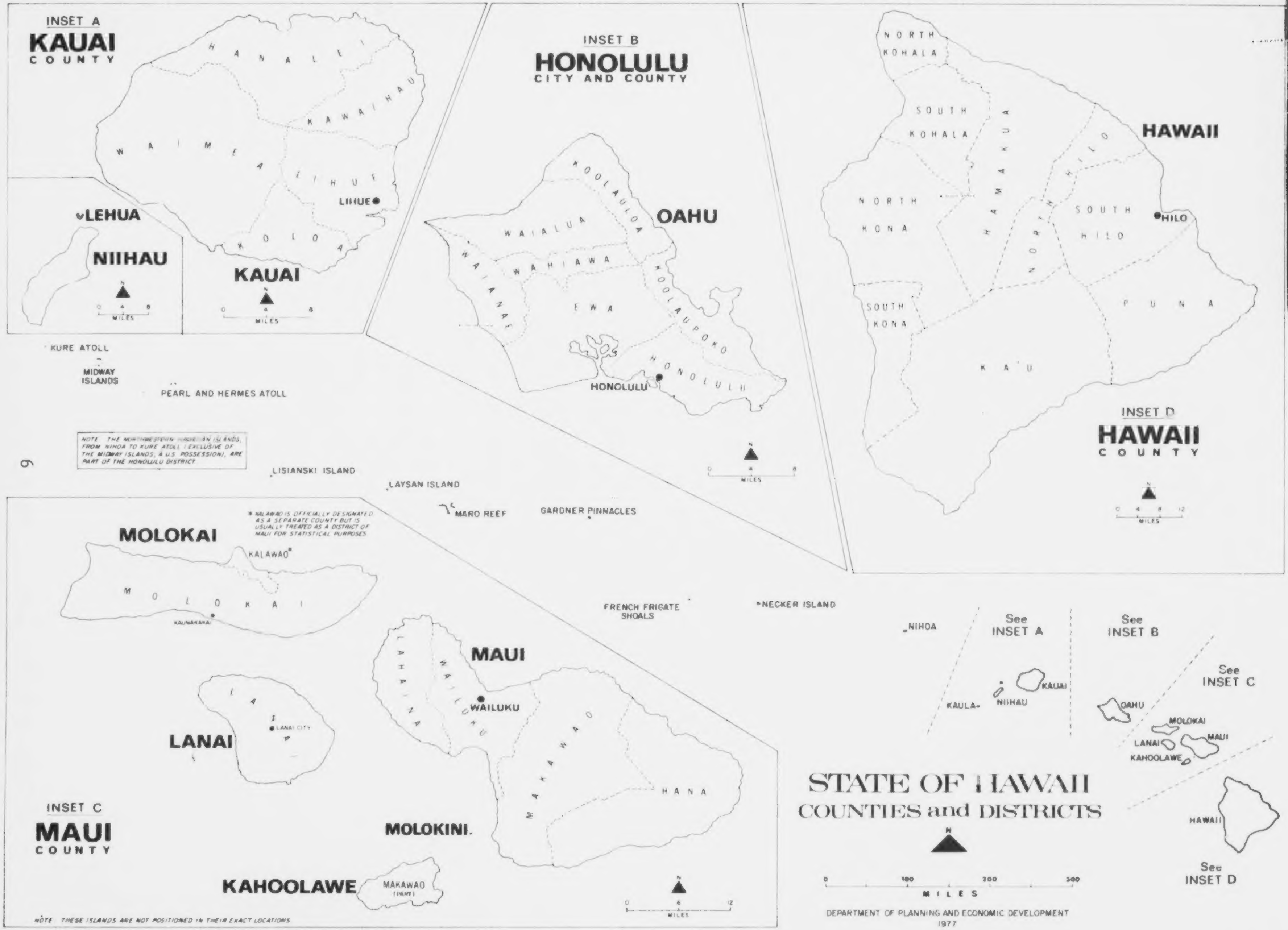


STATE OF HAWAII
COUNTIES and DISTRICTS

DEPARTMENT OF PLANNING AND ECONOMIC DEVELOPMENT
1977

NOTE: THE NORTHWESTERN HAWAIIAN ISLANDS, FROM NIHOA TO KURE ATOLL (EXCLUSIVE OF THE MIDWAY ISLANDS, A U.S. POSSESSION), ARE PART OF THE HONOLULU DISTRICT

* KALAWAO IS OFFICIALLY DESIGNATED AS A SEPARATE COUNTY BUT IS USUALLY TREATED AS A DISTRICT OF MAUI FOR STATISTICAL PURPOSES

NOTE: THESE ISLANDS ARE NOT POSITIONED IN THEIR EXACT LOCATIONS

INSET A
KAUAI COUNTY
HANALEI
KAWAIHAU
WAIMEA
LIHUE
LIHUE
KOLOA
KAUAI
LEHUA
NIIHAU
N
0 4 8 MILES
INSET B
HONOLULU CITY AND COUNTY
OAHU
KOOLAULOA
WAIALUA
WAHIAWA
WAIANAE
EWA
KOOLAUPOKO
HONOLULU
HONOLULU
0 4 8 MILES
INSET D
HAWAII COUNTY
HAWAII
NORTH KOHALA
SOUTH KOHALA
HAMAKUA
NORTH HILO
SOUTH HILO
HILO
NORTH KONA
SOUTH KONA
PUNA
KA'U
0 4 8 12 MILES
KURE ATOLL
MIDWAY ISLANDS
PEARL AND HERMES ATOLL
LISIANSKI ISLAND
LAYSAN ISLAND
MARO REEF
GARDNER PINNACLES
FRENCH FRIGATE SHOALS
NECKER ISLAND
NIHOA
INSET C
MAUI COUNTY
MOLOKAI
KALAWAO*
MOLOKAI
KAUNAKAKAI
LANAI
LANAI
LANAI CITY
MAUI
LAHAINA
WAILUKU
WAILUKU
MAKAWAO
HANA
MOLOKINI
KAHOOLAWE
MAKAWAO (PART)
0 6 12 MILES
See INSET A
KAULA
NIIHAU
KAUAI
See INSET B
OAHU
See INSET C
MOLOKAI
MAUI
LANAI
KAHOOLAWE
HAWAII
See INSET D
N
0 100 200 300 MILES

INTRODUCTION

By Hideto Kono, Director
Department of Planning and Economic Development

The State of Hawaii Data Book: A Statistical Abstract is intended to serve as the standard official summary of statistics on the social, economic, and political organization of the State. Like its long-established counterpart, the Statistical Abstract of the United States, it may be used as either a convenient volume of statistical reference or a guide to other statistical publications and sources.

The present volume, containing statistics available in the summer of 1980, is the fourteenth such abstract to be published by the State of Hawaii. Earlier editions appeared in 1962, 1967, 1968, and annually beginning in 1970. All are now out of print, but copies can be seen in many high school, university, and public libraries in Hawaii.

The Data Book closely follows the organization and format of the U.S. Abstract, in order to facilitate comparison of Hawaii data with corresponding series for the nation and other jurisdictions.

Emphasis in the Data Book is given to the most recent available State data. Historical statistics and information for counties, islands, urban places, and smaller areas receive more limited attention. The publications cited as sources in the introductions to the various sections or at the end of each table usually contain additional statistical detail and a more comprehensive discussion of relevant definitions and concepts than can be presented here. Persons interested in more extensive information should consult these sources or write to the agencies responsible for them.

Many Federal, State, County and private organizations cooperated in the preparation of this report. These agencies are credited in the source references to the tables to which they contributed. Their assistance is gratefully acknowledged.

GUIDE TO TABULAR PRESENTATION

The tables in this report generally follow the principles of tabular presentation used by the U.S. Bureau of the Census in its annual publication, Statistical Abstract of the United States, and described in Bureau of the Census Manual of Tabular Presentation, published by the Bureau in 1950. These principles have been accepted by the Department of Planning and Economic Development for use in its publications and recommended to all other State agencies for official use.

Headnotes immediately below table titles provide information important for correct interpretation or evaluation of the table as a whole or for a major segment of it.

Unit indicators ("In thousands," "In millions of dollars," etc.) are usually given as the first element of the headnote. In tables where several units are used, the unit indicators are generally given in the stub or in the column headings.

Footnotes below the bottom rule of tables give information relating to specific items or figures within the table.

Parallel vertical rules are used to the right of a total column to indicate --

(1) that the components which follow add to the total;
(2) in the case of derived figures, that the underlying data are additive to their total.

The following symbols, used in the tables throughout this book, are explained in condensed form in footnotes to the tables where they appear:

—	Represents zero or rounds to less than half the unit of measurement shown.
D	Figure withheld to avoid disclosure of information pertaining to a specific organization or individual.
NA	Data not enumerated, tabulated, or otherwise available separately.
...	Same as NA; used in tables in which a large number of cells lack data.

In many tables, details will not add to the totals shown because of rounding.

Median: The value which divides the distribution into two equal parts--one-half the cases falling below this value and one-half exceeding it.

Geographic coverage should be understood as Statewide, unless otherwise indicated in the table title, headnote, boxhead, or stub. All annual statistics should be understood as referring to calendar years unless otherwise indicated.

UNITED STATES AND METRIC WEIGHTS AND MEASURES

U.S.			to	Metric	Metric			to	U.S.
Length									
Inches	x	25.4	=	millimeters	millimeters	x	0.039	=	inches
Feet	x	0.305	=	meters	meters	x	3.281	=	feet
Statute miles	x	1.609	=	kilometers	kilometers	x	0.621	=	miles
Area									
Sq. feet	x	0.093	=	sq. meters	sq. meters	x	10.764	=	sq. feet
Acres	x	0.405	=	hectares	hectares	x	2.471	=	acres
Sq. miles	x	2.589	=	sq. kilometers	sq. kilometers	x	0.386	=	sq. miles
Volume and capacity									
Cubic feet	x	0.028	=	cu. meters	cu. meters	x	35.315	=	cu. feet
Cubic yards	x	0.765	=	cu. meters	cu. meters	x	1.308	=	cu. yards
Fluid ounces	x	29.573	=	milliters	milliters	x	0.034	=	fluid ounces
Quarts (liq.)	x	0.946	=	liters	liters	x	1.057	=	quarts (liq.)
Gallons (liq.)	x	3.785	=	liters	liters	x	0.264	=	gallons (liq.)
Mass									
Ounces (avdp.)	x	28.350	=	grams	grams	x	0.035	=	ounces (avdp.)
Pounds (avdp.)	x	0.454	=	kilograms	kilograms	x	2.205	=	pounds (avdp.)
Hundredweight	x	45.359	=	kilograms	kilograms	x	0.022	=	hundredweight
Short tons	x	0.907	=	metric tons	metric tons	x	1.102	=	short tons

Miscellaneous Conversions

1 statute mile = 5,280 ft. = 1,760 yards
1 acre = 43,560 sq. feet
1 square mile = 640 acres
1 short ton = 2,000 pounds

Continued on next page.

UNITED STATES AND METRIC WEIGHTS AND MEASURES -- Con.

Fahrenheit	to	Celsius	Celsius	to	Fahrenheit
Temperature					
100 °F		37.8 °C	40 °C		104.0 °F
90		32.2	35		95.0
80		26.7	30		86.0
70		21.1	25		77.0
60		15.6	20		68.0
50		10.0	15		59.0
40		4.4	10		50.0
30		-1.1	5		41.0
20		-6.7	0		32.0
10		-12.2	-5		23.0
			-10		14.0

Source: U.S. National Bureau of Standards, Special Publication 304a; Department of Geography, University of Hawaii, Atlas of Hawaii.

Section 1

POPULATION

This section presents statistics on the growth, geographic distribution, and characteristics of the population of Hawaii, and on the number and characteristics of migrants moving to and from the State.

Preliminary tabulations of the 1980 census indicate a resident population approaching one million. This total includes approximately 61,000 members of the armed forces and 64,000 of their dependents. It excludes more than 100,000 visitors who were present on an average day in 1980, while including around 10,000 residents who were temporarily out of the State. The total population has risen from 58,000 in 1878 to 154,000 in 1900 and 423,000 in 1940 (although a wartime peak of 859,000 was reached in 1944). Approximately four-fifths of the 1980 de facto total lived on Oahu, giving that island a density in excess of 1,300 persons per square mile. The population is young -- the median age in 1979 was 28.3 years -- and racially diversified. The major unmixed groups in 1979 were Caucasians (25.7 percent of the non-barracks, non-institutional population) and Japanese (24.8 percent). In addition, 28.3 percent were of mixed race, primarily part Hawaiian. Migration has been a major factor in the growth of the population: between 1970 and 1979, there was a net in migration (excluding military personnel and dependents) of 61,200, accounting for almost half of the total civilian population growth during that time. Intended residents arriving aboard westbound civilian carriers in fiscal 1978 numbered 47,300, of whom 27,600 were military personnel and dependents and 19,700 were other civilians. Immigrant arrivals in fiscal 1978 exceeded 9,000, mostly from the Philippines and Korea.

The comparison of demographic data from different sources is often complicated by the use of differing definitions and coverge. Some series, for example, refer to resident population, while others pertain to de facto population; the latter includes visitors present but excludes residents temporarily absent. Total population includes armed forces stationed in an area, as well as their dependents in the area; civilian population excludes military personnel but includes their dependents. Perhaps the greatest confusion is that resulting from the arbitrary allocation of persons of mixed race in the 1970 and 1980 U.S. Censuses. Such groups were shown separately in earlier censuses, and are still reported separately in data issued by State agencies.

The principal sources for these data are the decennial population censuses conducted by the U.S. Bureau of the Census, the estimates developed annually by the Hawaii State Department of Health and Department of Planning and Economic Development in cooperation with the Bureau of the Census, the Hawaii Health Surveillance Program conducted regularly since 1969 by the Department of Health, the OEO 1975 Census Update Survey, and the ongoing series on migration maintained by the

Hawaii Visitors Bureau and U.S. Immigration and Naturalization Service. The Department of Planning and Economic Development summarizes these data in two series of reports, both issued annually: The Population of Hawaii and Hawaii's In-Migrants. Another annual report distributed by DPED contains population estimates by census tracts. Much additional information will become available when the final results of the 1980 Census of Population are published in 1981 and 1982. Earlier figures on population and migration are given in Historical Statistics of Hawaii, Sections 1 and 3. Comparable national statistics on population and migration appear in sections 1 and 3 of Statistical Abstract of the United States: 1979.

Table 1.-- POPULATION, URBAN AND RURAL: 1831 TO 1980

(Data for 1831-1896 are on a de facto or unspecified basis; data for 1900 and later years are resident totals, including armed forces stationed in Hawaii.)

Census date	Total population		Urban 1/		Rural 2/	
	Number	Percent change 3/	Places	Population	Population	Percent of total
1831-32 4/	129,814	...	1	13,344	116,470	89.7
1835-36 5/	108,568	-4.5	1	12,994	95,574	88.0
1850: January ..	84,165	-1.8	1	14,484	69,681	82.8
1853: Dec. 26 ..	73,138	-3.5	1	11,455	61,683	84.3
1860: Dec. 24 ..	69,800	-0.7	1	14,310	55,490	79.5
1866: Dec. 7 ...	62,959	-1.7	1	13,521	49,438	78.5
1872: Dec. 27 ..	56,897	-1.7	1	14,852	42,045	73.9
1878: Dec. 27 ..	57,985	0.3	1	14,114	43,871	75.7
1884: Dec. 27 ..	80,578	5.5	1	20,487	60,091	74.6
1890: Dec. 28 ..	89,990	1.8	1	22,907	67,083	74.5
1896: Sept. 27 .	109,020	3.3	1	29,920	79,100	72.6
1900: June 1 ...	154,001	9.4	1	39,306	114,695	74.5
1910: April 15 .	191,874	2.2	2	58,928	132,946	69.3
1920: January 1	255,881	3.0	2	92,251	163,630	63.9
1930: April 1 ..	368,300	3.6	12	197,937	170,363	46.3
1940: April 1 ..	422,770	1.4	17	264,262	158,508	37.5
1950: April 1 ..	499,794	1.7	17	344,869	154,925	31.0
1960: April 1 ..	632,772	2.4	19	483,961	148,811	23.5
1970: April 1 ..	769,913	2.0	34	643,222	126,691	16.5
1980: April 1 6/	963,617	2.2	(NA)	(NA)	(NA)	(NA)

NA Not available.

1/ The urban population comprises all persons living in urbanized areas (first defined for Hawaii in 1960) and in places of 2,500 or more outside urbanized areas. Statistical boundaries were first established for Honolulu in 1831, Hilo in 1911 (for 1910 census tabulations), and other urban places beginning in 1930.

2/ The rural population includes all persons living outside urban places.

3/ Annual rate since the preceding census, based on the formula for continuous compounding.

4/ Total population also reported as 130,313.

5/ Total population also reported as 108,393 and 108,579.

6/ Preliminary.

Source: Robert C. Schmitt, Historical Statistics of Hawaii (University Press of Hawaii, 1977), p. 8; U. S. Bureau of the Census, 1980 Census Press Release Announcements.

Table 2.-- RESIDENT POPULATION, BY MILITARY STATUS: 1958 TO 1979

(Excludes visitors present but includes residents temporarily absent. To be revised after the release of final 1980 census totals.)

Year 1/	Total resident population	Armed forces 2/	Civilian population		
			All civilians	Military dependents 3/	Not military dependents
1958	605,400	55,000	550,300	55,600	494,700
1959	622,100	56,600	565,500	56,200	509,300
1960: April 1 .	632,772	53,888	578,884	60,057	518,827
July 1 ..	641,500	59,200	582,300	60,300	522,100
1961	658,700	60,800	597,900	62,000	535,800
1962	683,500	79,000	604,500	63,200	541,300
1963	682,200	59,600	622,700	61,500	561,200
1964	699,900	73,200	626,700	69,100	557,600
1965	703,800	53,400	650,400	65,800	584,600
1966	710,300	54,100	656,300	62,600	593,600
1967	722,500	56,000	666,500	61,300	605,200
1968	734,500	57,000	677,400	59,100	618,300
1969	750,200	48,500	701,800	59,700	642,100
1970: April 1 .	769,913	55,142	714,771	61,858	652,913
July 1 ..	775,100	53,200	721,900	57,800	664,100
1971	797,400	50,800	746,600	62,200	684,400
1972	820,700	52,000	768,800	66,200	702,600
1973	840,500	58,100	782,400	70,300	712,100
1974	853,500	57,500	796,000	68,300	727,600
1975	868,000	58,900	809,200	63,700	745,500
1976	882,400	57,800	824,600	67,000	757,600
1977	892,800	56,500	836,300	65,000	771,300
1978	902,400	58,300	844,100	61,100	783,000
1979	914,700	57,900	856,800	64,500	792,300

1/ As of July 1 unless otherwise specified.

2/ De facto basis through 1969; stationed or homeported in Hawaii, 1970 and later years. These figures are the estimates prepared by the U.S. Bureau of the Census for use in State population estimation, and differ somewhat from the data compiled by the Hawaii State Department of Planning and Economic Development (and published annually in Military Personnel and Dependents in Hawaii) and the U.S. Bureau of Economic Analysis (for calculating per capita personal income).

3/ Dependents living in Hawaii, regardless of location of family head.

Source: Hawaii State Department of Planning and Economic Development, The Population of Hawaii, 1979 (Statistical Report 136, April 24, 1980).

Table 3.-- DE FACTO AND RESIDENT POPULATION, BY RESIDENCE STATUS: 1958 TO 1979

(To be revised after the release of final 1980 census totals.)

Year 1/	De facto population 2/		Resident population 3/	
	Total	Visitors present 4/	Total	Temporarily absent 4/
1958	611,800	8,400	605,400	2,000
1959	630,500	10,400	622,100	2,000
1960: April 1 .	641,500	10,800	632,772	2,100
July 1 ..	651,200	11,800	641,500	2,100
1961	668,200	12,000	658,700	2,400
1962	693,600	13,100	683,500	3,000
1963	694,500	15,300	682,200	3,100
1964	711,200	16,000	699,900	4,700
1965	715,400	17,300	703,800	5,700
1966	724,600	21,000	710,300	6,800
1967	742,600	27,700	722,500	7,600
1968	758,800	32,500	734,500	8,100
1969	778,800	37,400	750,200	8,800
1970: April 1 .	797,300	37,600	769,913	10,300
July 1 ..	802,700	37,600	775,100	10,000
1971	829,900	41,900	797,400	9,400
1972	863,400	51,300	820,700	8,600
1973	892,300	61,600	840,500	9,800
1974	911,700	66,000	853,500	7,800
1975	927,900	68,800	868,000	9,000
1976	951,500	78,500	882,400	9,400
1977	970,600	86,800	892,800	9,000
1978	990,500	96,000	902,400	7,900
1979	1,012,900	104,600	914,700	6,400

1/ As of July 1 unless otherwise specified.

2/ The de facto population is defined as the number of persons physically present in an area, regardless of usual place of residence; it includes visitors present but excludes residents temporarily absent.

3/ The resident population is defined as the number of persons whose usual place of residence is in an area, regardless of physical location on the estimate or census date. It includes military personnel stationed or homeported in the area but excludes persons of local origin attending school or in military service outside the area.

4/ Averages for 12-month periods centered on the estimate or census dates.

Source: Hawaii State Department of Planning and Economic Development, The Population of Hawaii, 1979 (Statistical Report 136, April 24, 1980).

Table 4.-- RESIDENT POPULATION, TOTAL AND CIVILIAN, OF COUNTIES AND ISLANDS: 1970 AND 1980

(Excludes visitors present and includes residents temporarily absent.)

County and island	Total resident population 1/			Civilian resident population 2/	
	April 1, 1970	April 1, 1980 3/	Percent change	April 1, 1970	April 1, 1980 3/
State total	769,913	963,617	25.2	714,771	902,598
City and County of Honolulu	630,528	760,957	20.7	575,719	700,291
Oahu	630,497	760,926	20.7	575,719	700,291
Outlying islands 4/	31	31	0	-	-
Other counties	139,385	202,660	45.4	139,052	202,307
Hawaii	63,468	92,206	45.3	63,328	92,044
Kauai	29,761	39,117	31.4	29,627	38,953
Kauai	29,524	38,891	31.7	29,390	38,727
Kaula and Lehua	-	-	...	-	-
Niihau	237	226	-4.6	237	226
Maui and Kalawao	46,156	71,337	54.6	46,097	71,310
Kahoolawe	-	-	...	-	-
Lanai	2,204	2,125	-3.6	2,204	2,125
Maui	38,691	63,136	63.2	38,632	63,109
Molokai	5,261	6,076	15.5	5,261	6,076
Kalawao	172	146	-15.1	172	146
Rest of Molokai	5,089	5,930	16.5	5,089	5,930

1/ Including military personnel and their dependents.

2/ Excluding military personnel but including their dependents.

3/ Preliminary.

4/ The Northwestern Hawaiian Islands, from Nihoa to Kure Atoll but excluding Midway.

Source: U.S. Bureau of the Census, 1980 Census Press Release Announcements; Hawaii State Department of Planning and Economic Development, Military Personnel and Dependents in Hawaii, April 1980 (Statistical Report 139, May 15, 1980), and records.

Table 5.-- DE FACTO POPULATION, 1970 TO 1979, AND DENSITY, 1979 OF COUNTIES AND ISLANDS

(Includes visitors present and excludes residents temporarily absent.)

County and island	De facto population			De facto density, 1979	
	April 1, 1970	July 1, 1978	July 1, 1979	Per square mile	Per square km.
State total	797,300	990,500	1,012,900	157.6	60.9
City and County of Honolulu	649,600	781,700	797,200	1,338.2	516.6
Oahu	649,600	781,700	797,100	1,344.9	519.3
Outlying islands 1/	31	35	25	8.3	3.1
Other counties	147,600	208,800	215,800	37.0	14.3
Hawaii	66,300	89,300	91,300	22.6	8.7
Kauai	32,300	42,400	43,600	70.4	27.2
Kauai	32,100	42,100	43,300	79.0	30.5
Kaula and Lehua	-	-	-	0	0
Niihau	237	266	266	3.8	1.5
Maui and Kalawao	49,100	77,100	80,900	68.9	26.6
Kahoolawe	-	-	-	0	0
Lanai	2,200	3,100	3,000	21.3	8.2
Maui	41,500	66,400	70,100	96.2	37.2
Molokai	5,300	7,600	7,900	30.1	11.6
Kalawao	172	173	170	12.8	5.0
Rest of Molokai	5,200	7,500	7,700	31.1	12.0

1/ The Northwestern Hawaiian Islands, from Nihoa to Kure Atoll but excluding Midway.

Source: Hawaii State Department of Planning and Economic Development, The Population of Hawaii, 1979 (Statistical Report 136, April 24, 1980).

Table 6.-- RESIDENT POPULATION OF COUNTIES AND DISTRICTS: 1960 TO 1980

County and district 1/	April 1, 1960	April 1, 1970	April 1, 1980 2/	Percent change	
				1960 to 1970	1970 to 1980 2/
The State	632,772	769,913	963,617	21.7	25.2
Honolulu	500,409	630,528	760,957	26.0	20.7
Honolulu	294,194	324,871	365,114	10.4	12.4
Koolaupoko	60,238	92,219	108,808	53.1	18.0
Koolauloa	8,043	10,562	14,215	31.3	34.6
Waialua	8,221	9,171	9,852	11.6	7.4
Wahiawa	34,595	37,329	41,597	7.9	11.4
Waianae	16,452	24,077	31,553	46.3	31.1
Ewa	78,666	132,299	189,818	68.2	43.5
Hawaii	61,332	63,468	92,206	3.5	45.3
Puna	5,030	5,154	11,775	2.5	128.5
South Hilo	31,553	33,915	42,320	7.5	24.8
North Hilo	2,493	1,881	1,691	-24.5	-10.1
Hamakua	5,221	4,648	5,146	-11.0	10.7
North Kohala	3,386	3,326	3,256	-1.8	-2.1
South Kohala	1,538	2,310	4,607	50.2	99.4
North Kona	4,451	4,832	13,793	8.6	185.5
South Kona	4,292	4,004	5,914	-6.7	47.7
Ka'u	3,368	3,398	3,704	0.9	9.0
Maui and Kalawao ..	42,855	46,156	71,337	7.7	54.6
Hana	1,073	969	1,419	-9.7	46.4
Makawao	10,409	9,979	19,230	-4.1	92.7
Wailuku	19,391	22,219	32,200	14.6	44.9
Lahaina	4,844	5,524	10,287	14.0	86.2
Lanai	2,115	2,204	2,125	4.2	-3.6
Molokai	4,744	5,089	5,930	7.3	16.5
Kalawao	279	172	146	-38.4	-15.1
Kauai	28,176	29,761	39,117	5.6	31.4
Waimea	7,057	7,569	8,593	7.3	13.5
Koloa	7,012	6,851	8,748	-2.3	27.7
Lihue	6,297	6,766	8,595	7.4	27.0
Kawaihau	6,498	7,393	10,517	13.8	42.3
Hanalei	1,312	1,182	2,664	-9.9	125.4

1/ For county and district boundaries, see the map on page 6.

2/ Preliminary.

Source: U.S. Bureau of the Census, *U.S. Census of Population: 1970*, PC(1)-A13, table 10, and 1980 Census Press Release Announcements.

Table 7.-- LAND AREA, 1980, AND RESIDENT POPULATION, 1970 AND 1980, OF ISLANDS, CITIES, TOWNS, AND VILLAGES

(This table presents data for the 101 places defined by the Hawaii State Department of Planning and Economic Development, in cooperation with the Bureau of the Census, for the 1980 decennial census, under authority granted by Sec. 26-18, Hawaii Revised Statutes, 1976 Replacement. Boundaries of a large number of places were significantly altered between 1970 and 1980, and the 1970 and 1980 population counts accordingly refer to different areas. Although described in the legislation as "cities, towns, and villages," none of these places is an independent municipality with separate governmental and taxing powers; the boundaries determined for these places are statistical rather than political.)

Island and place	Land area, 1980 (acres)	Resident population	
		1970 1/	1980 2/
Hawaii	2,583,680	63,468	92,206
Captain Cook	4,800	1,263	2,025
Hakalau	701	742	249
Hawi	674	797	798
Hilo	35,929	26,353	35,303
Holualoa 3/	2,767	(NA)	1,242
Honokaa	882	1,555	1,944
Honomu	301	737	560
Kailua	4,988	365	4,763
Kainaliu 3/	1,039	(NA)	509
Kapaau	1,234	237	614
Keaau	620	951	776
Kealakekua	1,327	740	1,039
Kukuihaele	1,120	310	331
Laupahoehoe	1,139	452	503
Makapala	823	201	191
Mountain View	1,032	419	545
Naalehu	2,541	1,014	1,161
Ookala	374	486	401
Paauilo	773	710	758
Pahala	637	1,507	1,631
Pahoa	1,461	924	925
Papaaloa	297	319	267
Papaikou	921	1,888	1,565
Paukaa 3/	266	(NA)	541
Puako 3/	2,707	(NA)	257
Waimea	652	756	1,179
Wainaku 3/	275	(NA)	1,044
Remainder of island ..	2,513,400	20,742	31,085

Continued on next page.

Table 7.-- LAND AREA, 1980, AND RESIDENT POPULATION, 1970 AND 1980, OF ISLANDS, CITIES, TOWNS, AND VILLAGES -- Con.

Island and place	Land area, 1980 (acres)	Resident population	
		1970 1/	1980 2/
Maui	466,048	38,691	63,136
Haiku	194	464	616
Haliimaile	150	638	743
Hana	1,521	459	640
Honokahua	545	431	308
Kaanapali 3/	852	(NA)	525
Kahului	2,888	8,280	12,972
Kihei 3/	2,099	(NA)	5,644
Lahaina	1,150	3,718	6,105
Lower Paia	626	1,105	1,516
Makawao	1,111	1,066	2,912
Napili-Honokowai 3/	482	(NA)	2,454
Paia	630	541	193
Pauwela	234	355	463
Pukalani	1,478	1,629	3,963
Puunene	340	1,132	571
Waihee	278	346	409
Waikapu	257	598	697
Wailea 3/	1,348	(NA)	1,111
Wailuku	2,283	7,979	10,275
Remainder of island	447,582	9,950	11,019
Kahoolawe	28,800	-	-
Molokini	19	-	-
Lanai	89,280	2,204	2,125
Lanai City	154	2,122	2,097
Remainder of island	89,126	82	28
Molokai	166,976	5,261	6,076
Kaunakakai	1,289	1,070	2,249
Kualapuu	52	441	502
Maunaloa	99	872	636
Remainder of island	165,536	2,878	2,689
Oahu	379,328	630,528	760,926
Ahuimanu 3/	1,646	(NA)	6,246
Aiea 4/	3,716	25,106	32,616
Barbers Point Housing	149	3,187	1,388
Ewa	627	2,906	2,555
Ewa Beach	882	7,765	14,155

Continued on next page.

Table 7.-- LAND AREA, 1980, AND RESIDENT POPULATION, 1970 AND 1980, OF ISLANDS, CITIES, TOWNS, AND VILLAGES -- Con.

Island and place	Land area, 1980 (acres)	Resident population	
		1970 1/	1980 2/
Oahu (con.):			
Haleiwa	1,207	2,626	2,414
Hauula	1,006	2,048	2,993
Heeia 3/	931	(NA)	5,452
Hickam Housing	776	7,352	4,440
Honolulu 5/...........	51,828	324,840	365,083
Iroquois Point	403	4,572	3,878
Kaaawa	367	848	961
Kahaluu	841	1,657	2,919
Kahuku	566	917	936
Kailua	4,470	33,783	35,873
Kaneohe	3,886	29,903	29,500
Laie	781	3,009	4,640
Maili	573	4,397	5,044
Makaha	1,600	4,644	6,594
Makakilo City	1,791	3,499	7,714
Maunawili	2,230	5,303	5,217
Mililani Town	2,354	2,035	21,273
Mokapu	2,718	7,860	6,470
Nanakuli	1,602	6,506	8,183
Pearl City 6/	5,449	27,398	42,535
Schofield Barracks ...	1,849	13,516	18,949
Wahiawa	1,492	17,598	16,653
Waialua	784	4,047	4,051
Waianae	2,194	3,302	7,968
Waimanalo	255	2,081	3,555
Waimanalo Beach	973	3,045	4,119
Waipahu	1,815	24,150	29,288
Waipio Acres	447	2,146	3,991
Whitmore Village	470	2,015	2,320
Remainder of island ..	276,650	52,913	50,953
Kauai	351,168	29,524	38,891
Anahola	860	638	918
Eleele	350	758	582
Hanalei	434	153	482
Hanamaulu	508	2,461	3,231
Hanapepe	580	1,388	1,420
Kalaheo	1,152	1,514	2,499
Kapaa	2,415	3,794	4,491
Kaumakani	559	1,014	889

Continued on next page.

Table 7.-- LAND AREA, 1980, AND RESIDENT POPULATION, 1970 AND 1980, OF ISLANDS, CITIES, TOWNS, AND VILLAGES -- Con.

Island and place	Land area, 1980 (acres)	Resident population	
		1970 1/	1980 2/
Kauai (con.):			
Kekaha	646	2,404	3,261
Kilauea	348	671	891
Koloa	722	1,368	1,461
Lihue	3,959	3,124	4,001
Poipu	587	466	679
Princeville 3/	1,367	(NA)	499
Puhi	129	772	991
Wailua	763	1,379	1,585
Waimea	624	1,569	1,565
Remainder of island ..	335,165	6,288	9,672
Niihau	44,544	237	226
Lehua and Kaula	523	-	-
Northwestern Hawaiian Islands, exc. Midway .	1,895	31	31

NA Not available.

1/ Unless otherwise indicated, the 1970 totals shown here refer to the area as bounded for the 1970 census rather than the area defined for 1980.

2/ Preliminary data.

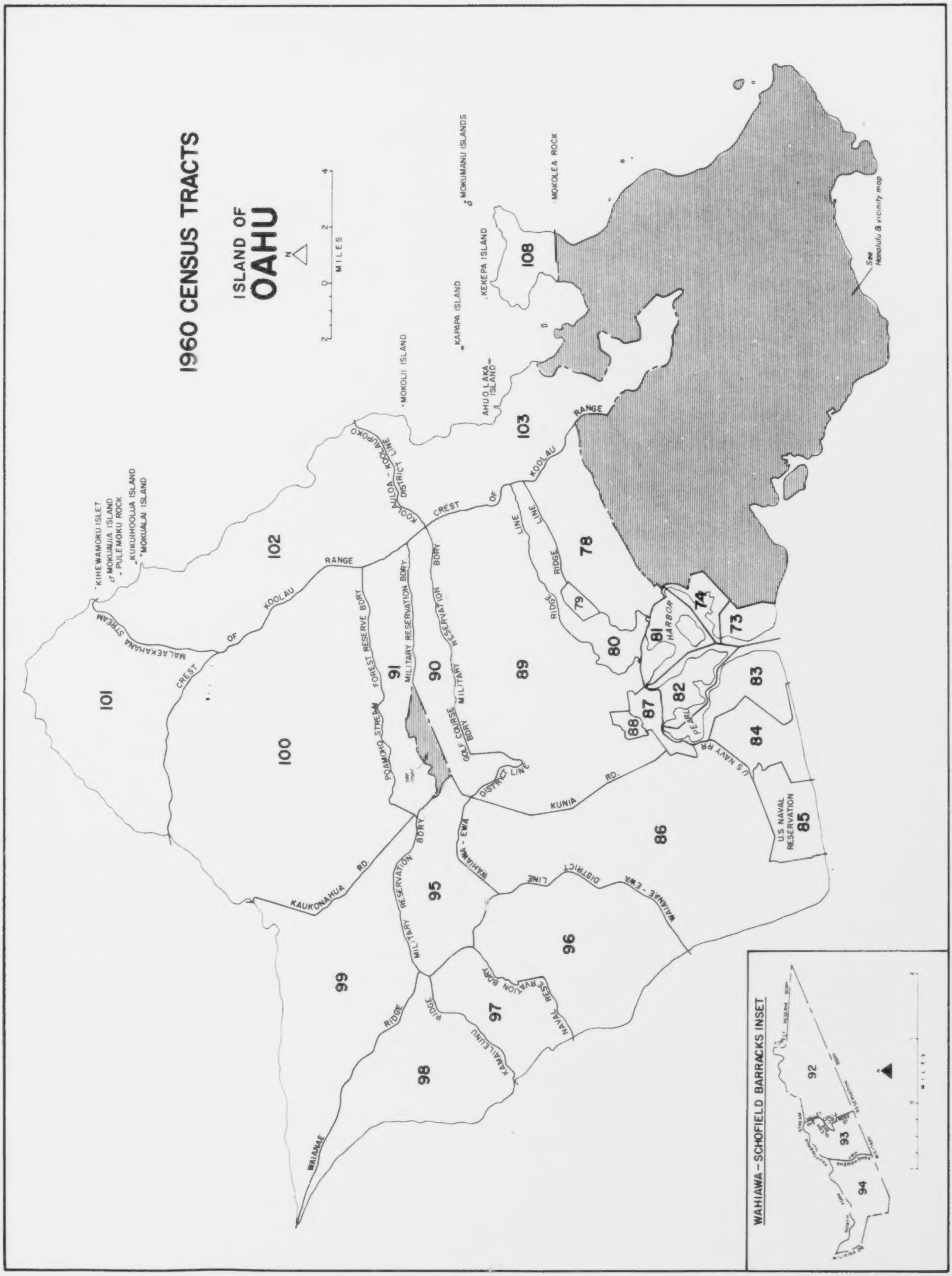
3/ These places were newly defined for 1980.

4/ Aiea was redefined for 1980 to include four places shown separately in 1970: Aiea (12,560), Foster Village (3,755), Halawa Heights (5,809), and Waimalu (2,982). The 1970 population shown here is the sum of the figures for the separate places.

5/ Excluding the Northwestern Hawaiian Islands (1,895 acres; 31 inhabitants in both 1970 and 1980), legally part of Honolulu. Including the Northwestern Hawaiian Islands, Honolulu had a land area of 53,723 acres and a population of 324,871 in 1970 and 365,114 in 1980.

6/ Pearl City was redefined for 1980 to include two places shown separately in 1970: Pacific Palisades (7,846) and Pearl City (19,552). The 1970 population shown here is the sum of the figures for those two places.

Source: Area from Hawaii State Department of Planning and Economic Development, Statistical Boundaries of Cities, Towns and Villages As Approved Through December 31, 1979 (Report SB-A15, March 13, 1980). Population from U.S. Bureau of the Census, 1980 Census Press Release Announcements.


1960 CENSUS TRACTS
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KUKUIHOOLUA ISLAND
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KEKEPA ISLAND
MOKUMANU ISLANDS
MOKOLEA ROCK
AHU O LAKA ISLAND
MALAEKAHANA STREAM
CREST OF KOOLAU RANGE
KOOLAULOA - KOOLAUPOKO DISTRICT LINE
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MILITARY RESERVATION BDRY.
MILITARY RESERVATION BDRY
GOLF COURSE BDRY
POAMOHO STREAM
DISTRICT LINE
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KAUKONAHUA RD.
WAHIAWA - EWA DISTRICT LINE
WAIANAE - EWA DISTRICT LINE
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KAMAILEUNU RIDGE
WAIANAE RIDGE
RIDGE LINE
PEARL HARBOR
U.S. NAVY RR
U.S. NAVAL RESERVATION
See Honolulu & vicinity map
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WAHIAWA - SCHOFIELD BARRACKS INSET
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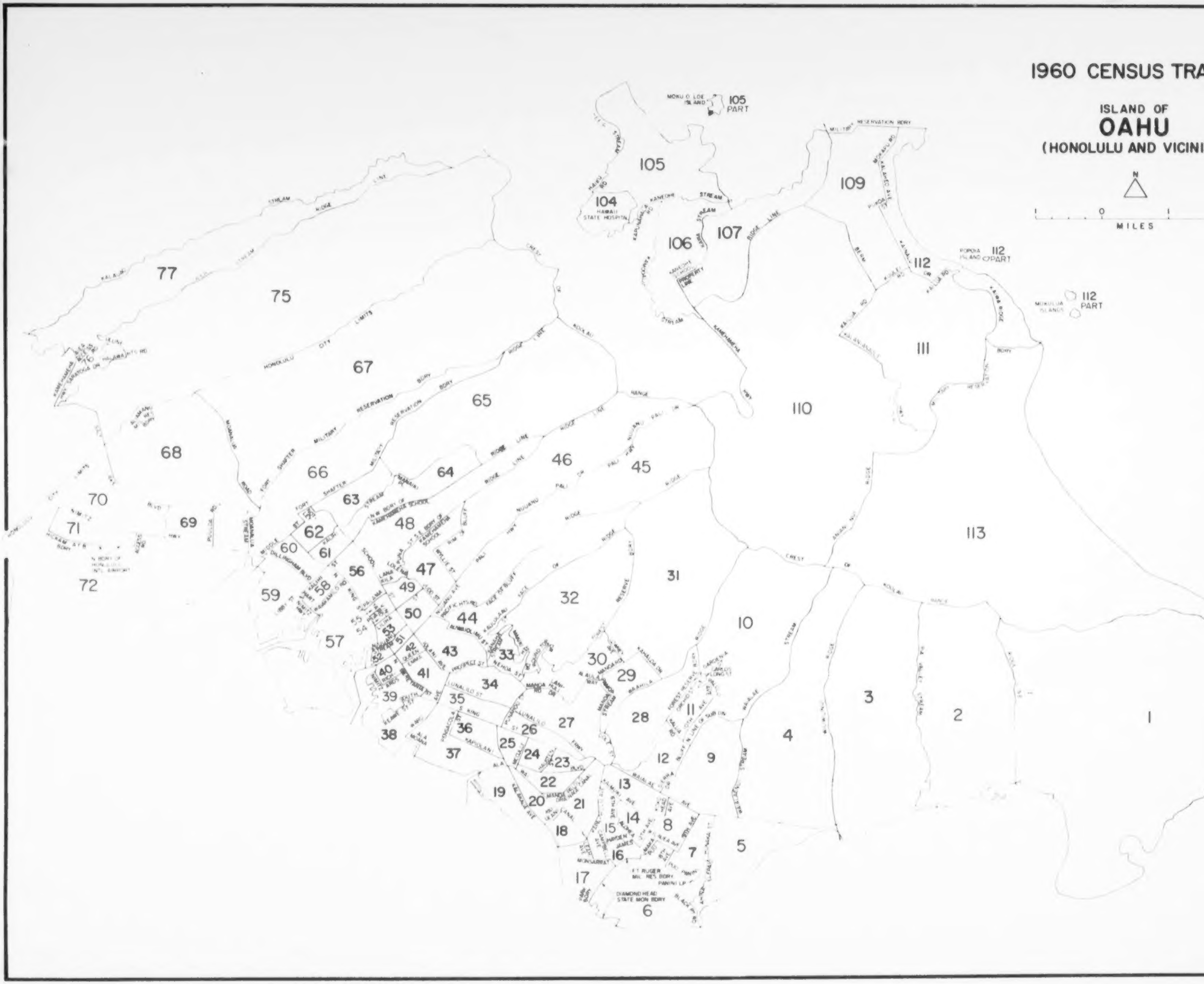

1960 CENSUS TRACTS

ISLAND OF
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HAWAII STATE HOSPITAL
FT RUGER MIL RES BDRY
DIAMOND HEAD STATE MON BDRY
HONOLULU CITY LIMITS
MILITARY RESERVATION BDRY
FORT SHAFTER
DILLINGHAM BLVD
MOANALUA STREAM
CREST OF KOOLAU RANGE
KAMEHAMEHA HWY
KAHALA AVE
WAIALAE AVE
KAPIOLANI
LUNALILO ST
PROSPECT ST
N BDRY OF HONOLULU INTL AIRPORT
HICKAM AFB BDRY

Table 8.-- POPULATION, 1979 AND 1985, HOUSING UNITS, 1979, AND EMPLOYMENT, 1975, FOR THE CITY AND COUNTY OF HONOLULU, BY CENSUS TRACTS

Census tracts (1960 definition)	Resident population				Housing units, 1979	Employ-ment, 1975 1/
	July 1, 1979	Percent change, 1970-79	Per acre, 1979	1985 (proj.)		
City and County	729,084	15.6	1.9	802,749	225,372	366,197
Honolulu 2/	358,251	10.3	6.3	399,263	128,428	257,510
1	23,049	83.3	3.1	26,532	6,503	2,258
2	6,488	26.6	2.9	5,782	1,943	589
3	6,089	-6.1	2.1	6,356	1,745	688
4	6,126	37.1	2.6	6,885	1,758	863
5	5,366	2.2	7.6	5,532	1,862	2,925
6	1,709	-15.6	2.1	1,869	531	655
7	3,711	-2.2	15.5	3,492	1,053	472
8	4,138	-10.0	18.6	4,350	1,282	783
9	10,274	-3.8	14.9	9,642	3,320	1,451
10	3,330	-8.8	1.7	3,516	914	173
11	4,262	-7.1	22.4	3,437	1,066	302
12	7,298	-7.5	26.1	7,163	2,198	1,239
13	4,850	-5.8	21.0	5,210	1,650	1,826
14	2,848	-4.7	23.4	2,732	868	231
15	4,438	2.1	31.9	4,007	1,406	421
16	4,713	-1.5	31.2	4,472	1,529	492
17	2,799	9.4	8.5	3,533	1,558	1,588
18	5,356	31.9	52.5	10,365	2,855	4,325
19	7,250	61.9	19.2	10,611	4,277	15,986
20	7,417	61.8	60.0	11,619	4,474	10,485
21	4,100	22.5	13.7	4,688	1,590	1,498
22	6,906	81.9	45.1	7,468	2,904	449
23	5,910	40.9	66.4	5,845	2,438	1,589
24	6,455	9.8	60.8	6,561	2,503	932
25	4,394	3.6	41.4	5,671	1,778	1,491
26	5,704	10.5	35.0	4,953	2,319	3,587
27	7,545	-13.4	12.1	10,678	2,960	7,377
28	3,545	-17.9	5.7	3,989	1,102	214
29	1,882	18.3	7.3	1,756	497	742
30	4,757	-4.2	11.6	4,621	1,638	1,027
31	8,121	-3.7	3.6	8,299	2,299	762
32	1,185	-2.7	0.8	1,236	401	231
33	968	-15.4	6.5	1,268	298	301
34	17,697	18.7	64.5	21,816	9,110	2,028
35	6,068	40.8	32.7	5,416	2,908	7,731
36	6,255	12.3	34.7	6,608	3,079	9,557
37	2,547	88.8	6.2	2,914	1,376	17,225

Continued on next page.

Table 8.-- POPULATION, 1979 AND 1985, HOUSING UNITS, 1979, AND EMPLOYMENT, 1975, FOR THE CITY AND COUNTY OF HONOLULU, BY CENSUS TRACTS -- Con.

Census tracts (1960 definition)	Resident population				Housing units, 1979	Employment, 1975 1/
	July 1, 1979	Percent change, 1970-79	Per acre, 1979	1985 (proj.)		
Honolulu, con.:						
38	481	-42.5	1.9	1,570	232	15,432
39	129	-67.5	0.4	297	84	11,163
40	88	-12.0	1.2	696	66	29,682
41	4,890	19.4	30.0	5,183	2,444	5,631
42	2,779	139.1	47.9	4,061	1,553	1,883
43	6,342	12.7	19.4	7,256	2,437	594
44	5,644	-8.1	6.9	6,281	1,553	394
45	4,780	0.0	2.5	5,278	1,548	797
46	4,022	-8.1	2.4	4,151	1,220	658
47	5,185	-5.7	15.9	5,166	1,536	1,520
48	5,886	-10.9	6.8	5,198	1,770	1,864
49	2,867	-12.9	28.3	3,584	987	939
50	3,730	-6.1	28.0	5,499	1,384	2,433
51	1,985	...	44.6	2,583	762	1,611
52	1,385	-1.4	31.1	650	1,000	3,715
53	2,608	441.1	30.2	3,680	1,710	1,205
54	1,381	-25.8	69.9	1,093	364	86
55	1,862	-5.7	35.9	2,475	605	262
56	4,719	-18.2	20.5	5,813	1,368	1,863
57	2,198	-20.0	2.1	2,671	988	10,834
58	3,752	18.6	29.8	2,618	1,169	2,120
59	3,963	-10.9	7.6	2,951	1,190	5,077
60	5,556	-17.2	31.2	5,058	1,658	2,293
61	2,808	-13.9	24.7	4,233	772	456
62	5,919	-13.2	38.6	7,103	1,609	669
63	5,650	-16.9	19.2	4,855	1,378	628
64	5,649	-15.4	12.8	6,080	1,450	229
65	3,571	-11.0	1.3	3,710	938	218
66	2,922	-14.7	2.0	3,316	702	6,171
67	9,401	-4.2	1.9	9,454	2,576	1,335
68	18,174	142.3	10.6	22,589	6,222	6,508
69	5,706	54.5	22.2	5,052	1,322	216
70	3,179	-35.1	4.5	3,455	1,017	6,059
71	1,713	22.2	6.4	1,760	594	120
72	1,757	-54.5	0.6	2,952	228	13,952
114 3/	25	-19.4	0.01	-	-	-
Rest of Oahu	370,833	21.3	1.1	403,486	96,944	108,687
73	7,379	-30.1	5.0	9,618	1,916	15,919

Continued on next page.

Table 8.-- POPULATION, 1979 AND 1985, HOUSING UNITS, 1979, AND EMPLOYMENT, 1975, FOR THE CITY AND COUNTY OF HONOLULU, BY CENSUS TRACTS -- Con.

Census tracts (1960 definition)	Resident population				Housing units, 1979	Employment, 1975 1/
	July 1, 1979	Percent change, 1970-79	Per acre, 1979	1985 (proj.)		
Rest of Oahu, con.:						
74	16,240	78.7	13.7	9,230	745	20,935
75	10,151	-11.1	1.7	11,708	2,578	3,540
76	3,139	7.0	19.3	1,802	811	66
77	9,929	3.1	4.5	10,012	2,733	1,361
78	13,674	111.8	1.4	26,348	3,837	4,876
79				747	0	22
80	26,113	7.3	5.4	27,506	6,887	3,790
81	2,851	-19.3	2.7	3,282	703	729
82	-	-	0	-	-	-
83	10,219	114.7	3.2	9,009	2,687	416
84	7,443	-4.6	1.8	9,559	2,022	687
85	3,224	1.2	0.9	3,538	854	1,303
86	11,749	40.9	0.4	13,341	3,278	3,002
87	12,867	1.3	13.4	11,720	3,624	3,565
88	4,005	16.8	5.8	4,835	1,072	1,276
89	33,826	139.6	1.0	36,826	9,674	5,938
90	2,994	7.6	0.4	2,877	693	1,147
91	2,844	-16.6	0.3	3,218	736	1,316
92	6,371	-4.0	8.4	7,952	1,842	503
93	4,734	-2.9	15.6	4,687	1,590	2,148
94	6,056	0.1	14.6	4,946	2,058	763
95	19,022	40.1	2.4	13,453	3,576	18,026
96	12,874	-5.7	0.8	15,744	3,306	1,759
97	9,177	52.4	1.2	9,806	2,806	1,441
98	5,972	35.6	0.4	7,972	1,734	609
99	8,050	9.6	0.3	9,356	2,439	2,130
100	1,897	3.9	40.04	2,086	588	625
101	4,890	39.8	0.2	5,632	1,586	896
102	8,397	18.8	0.3	9,550	2,355	2,098
103	15,690	36.1	0.9	19,742	4,482	1,513
104				586	-	558
105	14,866	19.0	10.2	17,559	4,103	2,679
106	7,972	-4.3	10.1	8,336	2,159	1,431
107	6,492	6.7	4.4	7,472	2,064	816
108	10,943	39.2	4.0	8,456	1,881	7,289
109	13,785	-5.7	12.4	14,710	3,926	2,481
110	4,204	6.2	0.6	4,780	1,096	676
111	15,620	17.0	6.3	17,740	4,180	2,641
112	7,395	2.6	8.6	7,562	2,228	793
113	7,779	14.8	1.1	10,183	2,095	1,324

Footnotes and source on next page.

Table 8.-- POPULATION, 1979 AND 1985, HOUSING UNITS, 1979, AND EMPLOYMENT, 1975, FOR THE CITY AND COUNTY OF HONOLULU, BY CENSUS TRACTS -- Con.

1/ By place of work. Data include armed forces as well as civilian workers, and are on a job rather than person basis. Workers with more than one job are accordingly counted more than once.

2/ As defined for statistical purposes under the provisions of Act 25, Session Laws of Hawaii, 1963. This area, extending from Honolulu International Airport to Makapuu Point (plus the Northwestern Hawaiian Islands), is coterminous with Honolulu District. Although Honolulu is the largest urban concentration in the City and County of Honolulu (the legal municipality, which encompasses the entire island), it lacks any separate governmental identify or powers.

3/ The Northwestern Hawaiian Islands, from Nihoa to Kure Atoll (but excluding Midway), which are legally part of the City and County of Honolulu.

Source: Hawaii State Census Statistical Areas Committee, Population and Housing Unit Estimates for Oahu Census Tracts, 1970-1979 (Report CTC-44, May 6, 1980), tables 3 and 4; Steven C. K. Young, Land Use Forecast for Oahu 1975-1985 (City and County of Honolulu, Department of General Planning, June 1978).

Table 9.-- ESTIMATED POPULATION OF VOTING AGE, BY CONGRESSIONAL DISTRICTS: JULY 1, 1979

District	Population 18 and over
State total	640,000
1	299,000
2	341,000

Source: U.S. Bureau of the Census, "Estimates of the Voting Age Population for 1979," Federal Register, Vol. 45, No. 31, February 13, 1980, pp. 9758-9760.

Table 10.-- POPULATION PROJECTIONS, RESIDENT AND DE FACTO, BY COUNTIES: 1985 TO 2000

(These projections are the Series II-F projections prepared in 1978 and officially recommended by the Hawaii State Dept. of Planning and Economic Development for planning purposes. They will be revised after the release of final 1980 census results.)

Type of population and year	State total 1/	City and County of Honolulu	Other counties			
			Total 1/	Hawaii	Kauai	Maui
RESIDENT 2/						
1985	1,020,900	803,800	217,100	95,200	40,600	81,400
1990	1,091,500	845,000	246,500	105,100	46,500	94,900
1995	1,163,800	885,800	278,000	115,000	53,100	109,900
2000	1,225,900	917,400	308,500	123,300	60,400	124,700
DE FACTO 3/						
1985	1,133,300	866,000	267,400	116,500	49,600	101,300
1990	1,229,800	917,600	312,100	132,200	58,400	121,500
1995	1,325,000	965,700	359,300	147,700	68,000	143,600
2000	1,395,300	996,200	399,100	158,800	77,300	163,000

1/ Because of independent rounding, detail may not add exactly to indicated totals and subtotals.

2/ Includes armed forces stationed in Hawaii and their dependents living in Hawaii but excludes visitors present.

3/ Includes visitors present as well as armed forces and their dependents but excludes residents temporarily absent. Both visitors present and residents absent are annual averages.

Source: Hawaii State Department of Planning and Economic Development, Revised Population and Economic Projections, 1975-2000 (March 1, 1978), p. 4, and De Facto Population Projections for Counties, 1978-2000 (Statistical Memorandum 79-5, April 26, 1979).

Table 11.-- POPULATION PROJECTIONS, BY AGE: 1985 TO 2000

(Resident totals including armed forces and their dependents but excluding visitors present. The figures for 1985-2000 are the Series II-F projections officially recommended by the Hawaii State Department of Planning and Economic Development for planning purposes, replacing the earlier Series E-2. These projections will be revised after the release of final 1980 census results.)

Age in years	1985	1990	1995	2000
All ages 1/	1,020,900	1,091,500	1,163,800	1,225,900
Under 5	80,800	85,800	90,100	93,800
5 to 9	76,900	83,000	88,200	92,100
10 to 14	73,600	77,600	82,900	87,300
15 to 19	76,600	77,000	80,700	84,600
20 to 24	106,900	105,300	106,700	108,600
25 to 44	321,600	341,500	353,900	358,800
45 to 64	191,000	209,400	234,200	258,800
65 and over	93,700	111,700	127,400	142,000
Median age (years) ..	30.2	31.4	32.3	33.0

1/ Because of independent rounding, age detail may not add exactly to indicated totals.

Source: Hawaii State Department of Planning and Economic Development, Revised Population and Economic Projections, 1975-2000 (March 1, 1978), p. 5.

Table 12.-- AGE, SEX AND MILITARY STATUS: 1979

(Excludes persons in institutions, military barracks, Kalawao, or Niihau. Based on a sample survey of 14,576 persons.)

Age in years	Total	Armed forces		Military dependents		Other civilians	
		Male	Female	Male	Female	Male	Female
All ages ..	880,051	28,314	2,445	15,808	35,866	395,576	402,041
Under 5	71,954	-	-	6,609	6,366	29,132	29,847
5 to 9	70,920	-	-	3,473	4,562	33,171	29,713
10 to 14	77,868	-	-	2,970	2,368	38,598	33,932
15 to 19	84,083	234	62	1,961	2,428	40,083	39,315
20 to 24	82,042	8,058	1,221	366	6,689	30,378	35,329
25 to 29	81,257	7,493	452	314	4,697	34,008	34,293
30 to 34	70,747	5,754	359	-	4,166	29,352	31,116
35 to 39	52,798	3,531	291	-	1,984	22,997	23,996
40 to 44	45,299	2,097	62	49	1,156	19,804	22,131
45 to 49	45,111	781	-	-	919	20,026	23,386
50 to 54	49,994	158	-	-	177	23,890	25,769
55 to 59	43,110	109	-	-	223	21,643	21,135
60 to 64	35,371	100	-	65	62	17,260	17,884
65 to 69	27,982	-	-	-	69	14,698	13,216
70 to 74	18,528	-	-	-	-	9,865	8,663
75 and over	22,987	-	-	-	-	10,671	12,317
Median (years) .	28.3	28.9	24.7	6.9	21.6	28.9	29.8

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 13.-- ETHNIC STOCK BY MILITARY STATUS: 1979

(Excludes persons in institutions or military barracks, on Niihau, or in Kalawao. Based on a sample survey of 14,576 persons.)

Ethnic stock 1/	Total		Armed forces	Military dependents	Other civilians
	Number	Percent			
All groups	880,051	100.0	30,760	51,674	797,617
Unmixed	631,470	71.7	29,269	46,005	556,196
Caucasian	226,551	25.7	23,714	35,777	167,060
Japanese	217,851	24.8	452	1,830	215,569
Chinese	38,625	4.4	161	198	38,266
Filipino	95,665	10.9	1,845	3,501	90,320
Hawaiian	7,574	0.9	129	124	7,322
Korean	14,052	1.6	85	164	13,804
Negro	7,912	0.9	2,546	3,484	1,882
Puerto Rican	3,716	0.4	64	96	3,556
Samoan	11,520	1.3	63	394	11,063
Other unmixed or unknown	8,003	0.9	211	437	7,354
Mixed	248,581	28.3	1,491	5,669	241,421
Part Hawaiian	167,180	19.0	411	1,529	165,240
Non Hawaiian	81,401	9.3	1,080	4,140	76,181

1/ Definitions used in this table differ widely from those in reports of the U.S. Bureau of the Census. Persons of mixed race are shown separately in this table but in census tabulations are assigned to one of the unmixed groups on the basis of self-identification or race of father.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 14.-- PLACE OF BIRTH BY MILITARY STATUS: 1979

(Excludes persons in institutions, military barracks, Kalawao or Niihau. Based on a sample survey of 14,576 persons.)

Place of birth	All groups	Armed forces	Military dependents	Other civilians
Total	880,051	30,760	51,674	797,620
Native born	755,421	28,647	44,342	682,432
Hawaii	560,395	2,179	8,143	550,073
Mainland U.S.	187,465	26,217	35,893	125,355
American Samoa	6,103	63	132	5,908
Other terr. or poss.	1,458	188	174	1,096
Foreign born	115,020	1,823	7,139	106,057
China	7,329	-	262	7,066
Indo-China 1/	3,051	-	320	2,731
Japan	26,223	-	2,056	24,167
Korea	7,839	-	232	7,607
Philippines	52,262	1,526	2,162	48,574
Other foreign	18,317	297	2,107	15,912
Not reported	9,610	290	192	9,128

1/ Cambodia, Laos, or Vietnam.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 15.-- UNDERSTANDING OF ENGLISH: SPRING 1976

(Excludes persons under 18 years of age, inmates of institutions, and residents of military barracks.)

Understanding of English	Number	Percent
All adults	596,039	100.0
Understand easily	556,225	93.3
Do not understand easily	33,882	5.7
Do not understand	5,902	1.0

Source: Hawaii State Department of Health, Comprehension of English in Hawaii (R & S Report, No. 20, February 1978), p. 5.

Table 16.-- LENGTH OF RESIDENCE IN HAWAII BY MILITARY STATUS: 1979

(Excludes persons in military barracks, institutions, Kalawao, or Niihau. Based on a sample survey of 14,696 persons.)

Length of residence in Hawaii	All groups	Armed forces	Military dependents	Other civilians
All periods	880,051	30,760	51,674	797,617
Less than 1 year	40,623	4,084	12,415	24,125
1 to 4 years	150,545	20,049	28,838	101,658
5 to 9 years	112,229	2,266	4,626	105,336
10 to 19 years	178,232	975	2,605	174,652
20 years or more	382,749	2,727	2,146	377,876
Not reported	15,672	659	1,044	13,969
Median (years)	17.2	3.2	2.8	28.4

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 17.--CITIZENSHIP: SPRING 1976

(Excludes persons in institutions or military barracks or on Niihau. Based on a sample survey of 38,818 persons.)

Island	All categories	U.S. citizens		U.S. nationals	Aliens	Status not reported
		Native born	Naturalized			
Six islands ..	851,824	746,208	39,837	2,748	62,479	552
Percent	100.0	87.6	4.7	0.3	7.3	0.1
Hawaii	75,732	68,428	3,467	82	3,648	107
Maui	49,260	42,872	2,345	-	4,044	-
Lanai	2,000	1,379	230	-	391	-
Molokai	5,330	4,517	340	-	473	-
Oahu	685,933	599,618	31,897	2,666	51,307	445
Kauai	33,569	29,394	1,558	-	2,617	-

Source: Hawaii State Department of Health and Department of Planning and Economic Development, Population Characteristics of Hawaii, 1976 (Population Report, No. 9, October 1977), tables 11, 12, and 13.

Table 18.-- ALIENS WHO REPORTED UNDER THE ALIEN ADDRESS PROGRAM BY STATUS AND NATIONALITY: 1969, 1978, AND 1979

Status and nationality	1969	1978	1979
Total aliens	49,642	69,958	69,622
Status:			
Permanent residents	44,015	61,633	62,922
Other than permanent 1/	5,627	8,325	6,700
Nationality: 2/			
Australia	257	393	418
Canada	1,666	1,890	1,861
China 3/	1,750	2,963	3,485
Germany	775	693	687
Japan	15,850	13,525	13,090
Korea	1,005	6,201	6,123
Laos	30	423	602
Philippines	23,410	32,160	33,163
Samoa, Western	214	580	651
Taiwan 3/	...	...	437
Thailand	134	617	601
Tonga	149	611	426
United Kingdom (including Hong Kong)	1,557	2,901	1,939
Vietnam	97	1,653	1,732
Other nationalities	2,731	3,877	3,644
Stateless	13	64	44
Unknown	4	1,407	719
Aliens as percent of resident population 4/	6.6	7.8	7.6

1/ Includes students (1,566 in 1979), refugees (1,133), visitors (519), exchange aliens (481), and others (3,001).

2/ Shown separately for nationalities over 400 in 1979.

3/ Taiwan included with China before 1979.

4/ Based on July 1 population estimates.

Source: U.S. Department of Justice, Immigration and Naturalization Service.

Table 19.-- HOUSEHOLD AND FAMILY CHARACTERISTICS: 1976

Subject	Number
Persons	
Population in households	842,000
In families	776,000
Head	201,000
65 years and over	21,000
Related children under 18 years	275,000
Related children 5 to 17 years	204,000
Other family members	299,000
Unrelated individuals	66,000
65 years and over	12,000
In families with female head, no husband present	77,000
Head	22,000
Related children under 18 years	36,000
Related children 5 to 17 years	27,000
Other family members	19,000
Female unrelated individuals	29,000
Families	
Total families	201,000
Size:	
2 persons	59,000
3 persons	43,000
4 persons	45,000
5 persons	27,000
6 persons	16,000
7 persons or more	10,000
Mean size of family	3.86
Number of related children under 18 years:	
No related children under 18 years	78,000
With related children under 18 years	123,000
1 child	47,000
2 children	42,000
3 children or more	34,000
Mean number of children	2.26

Source: U.S. Bureau of the Census, "Money Income and Poverty Status in 1975 of Families and Persons in the United States and the West Region, by Divisions and States (Spring 1976 Survey of Income and Education)," Current Population Reports, Consumer Income, Series P-60, No. 113 (July 1978), p. 179.

Table 20.-- HOUSEHOLDS AND FAMILIES, BY COUNTIES: 1979

(Based on a Statewide sample of 14,576 persons.)

County	Households	Families	Population in--		Population per--	
			Households	Families	Household	Family
State total ..	270,154	225,150	880,051	812,000	3.26	3.61
Honolulu	213,880	177,491	696,579	641,063	3.26	3.61
Hawaii	25,929	22,428	82,871	78,300	3.20	3.49
Kauai 1/	10,702	9,179	35,529	33,095	3.32	3.61
Maui 2/	19,642	16,052	65,072	59,542	3.31	3.71

1/ Excluding Niihau.
2/ Excluding Kalawao.
Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 21.-- MARITAL STATUS, BY SEX: 1979

(Excludes persons in institutions or military barracks, or on Niihau. Based on a sample survey of 11,180 persons.)

Marital status	Male	Female
Persons 14 years old and over	335,704	340,677
Single	115,651	93,065
Married, except separated	201,395	200,254
Separated	1,796	3,182
Widowed	6,463	25,067
Divorced	10,009	18,672
Not reported	392	435

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

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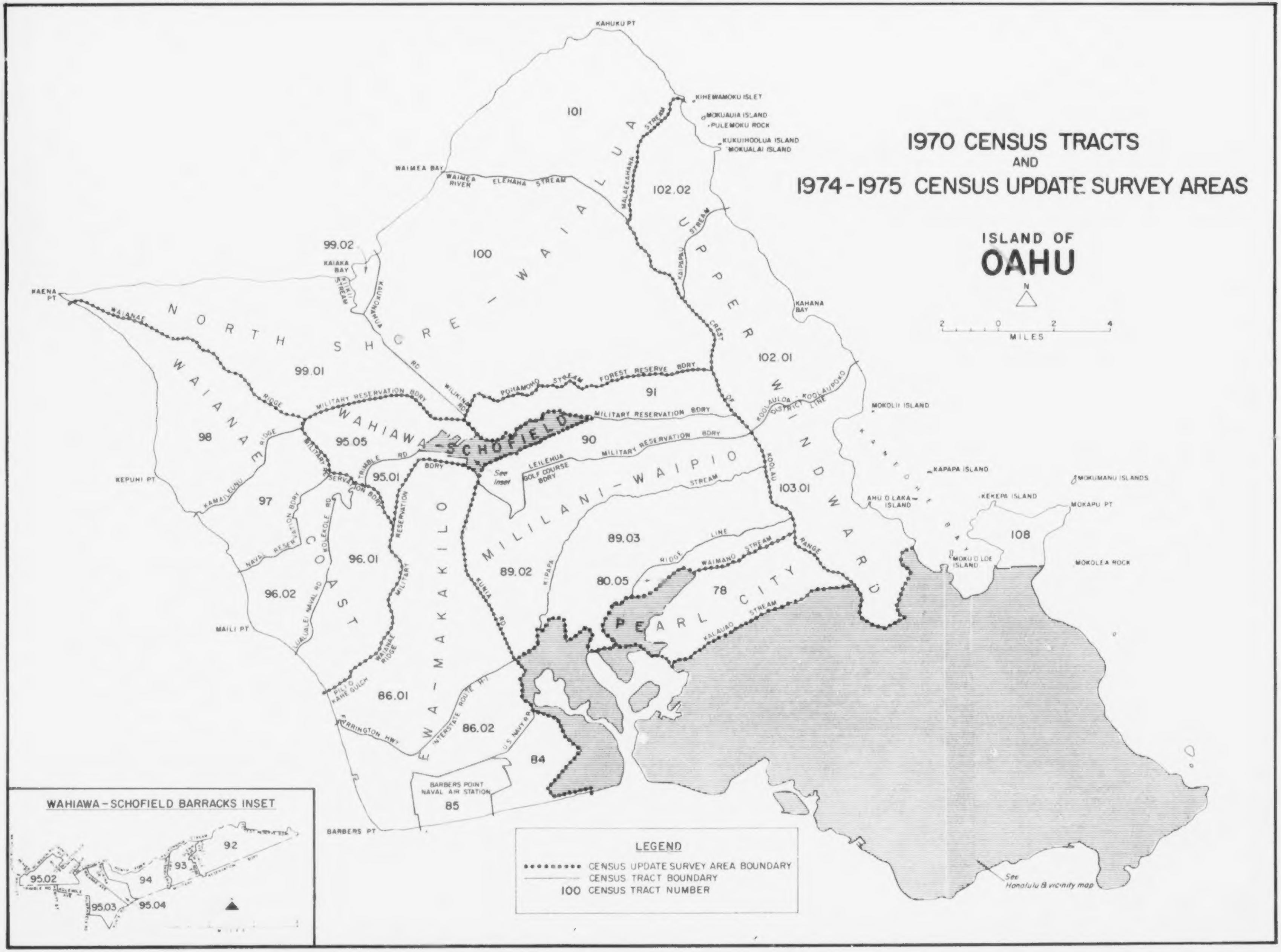
1970 CENSUS TRACTS AND 1974-1975 CENSUS UPDATE SURVEY AREAS

ISLAND OF OAHU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KAHUKU PT
KIHEWAMOKU ISLET
MOKUAUIA ISLAND
PULEMOKU ROCK
KUKUIHOOLUA ISLAND
MOKUALAI ISLAND
WAIMEA BAY
WAIMEA RIVER
ELEHAHA STREAM
KAIAKA BAY
KIIKII STREAM
KAUKONAHUA RD
KAENA PT
KAHANA BAY
KEPUHI PT
MAILI PT
BARBERS PT
BARBERS POINT NAVAL AIR STATION
MOKOLII ISLAND
KAPAPA ISLAND
MOKUMANU ISLANDS
KEKEPA ISLAND
MOKAPU PT
AHU O LAKA ISLAND
MOKU O LOE ISLAND
MOKOLEA ROCK
KANEOHE BAY
See Honolulu & vicinity map
See Inset
LEILEHUA GOLF COURSE BDRY
MILITARY RESERVATION BDRY
FOREST RESERVE BDRY
KOOLAULOA-KOOLAUPOKO DISTRICT LINE
KOOLAU CREST
KOOLAU RANGE LINE
POHAMOHO STREAM
KUNIA RD
KIPAPA STREAM
WAIMANO STREAM
KALAUAO STREAM
INTERSTATE ROUTE H1
U.S. NAVY RR
FARRINGTON HWY
KOLEKOLE RD
LUALUALEI NAVAL RD
NAVAL RESERVATION BDRY
KAMAILEUNU RIDGE
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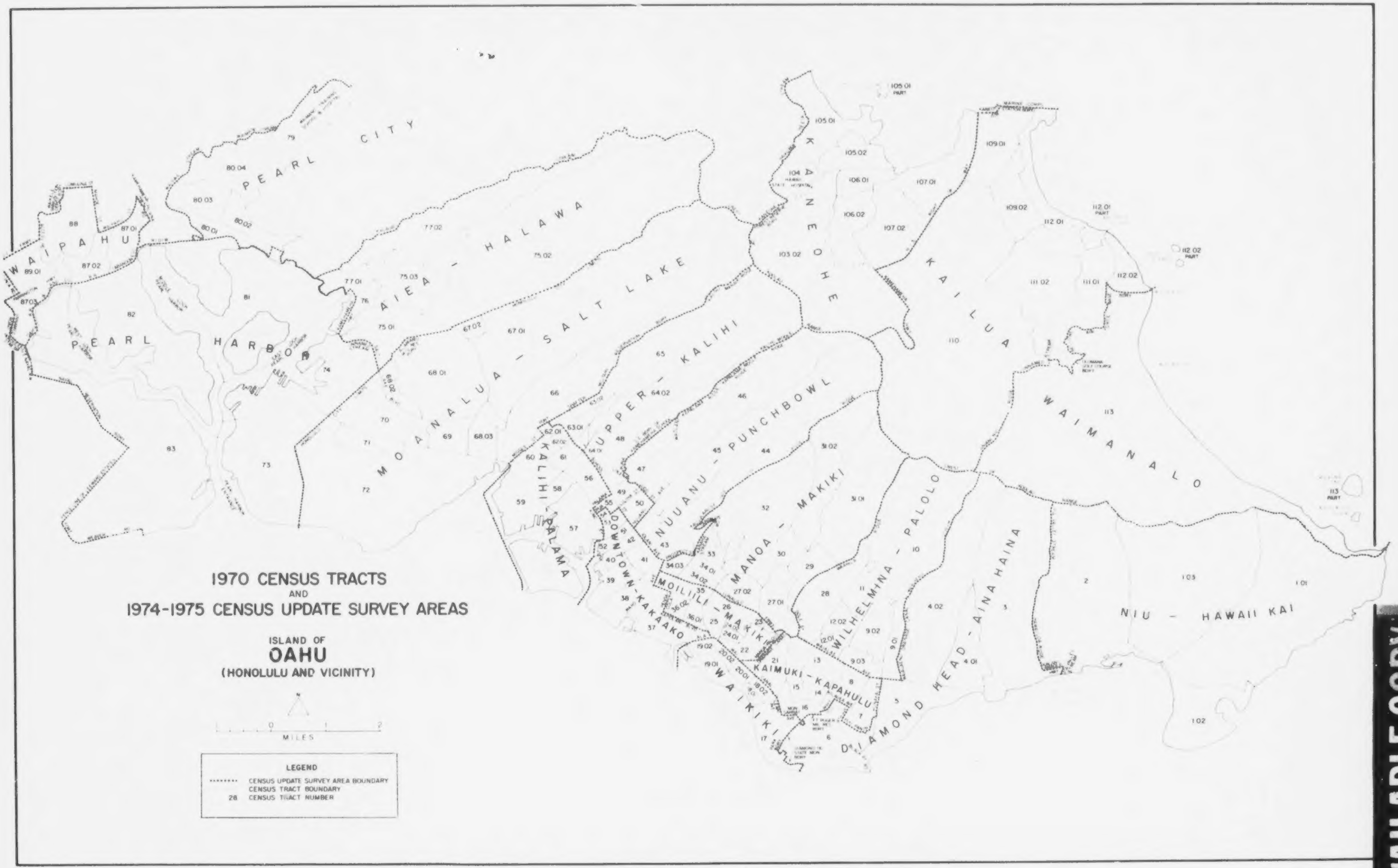
WAIPAHU
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AIEA - HALAWA
MOANALUA - SALT LAKE
UPPER - KALIHI
KALIHI - PALAMA
NUUANU - PUNCHBOWL
DOWNTOWN-KAKAAKO
MOILIILI - MAKIKI
MANOA - MAKIKI
WAIKIKI
KAIMUKI-KAPAHULU
WILHELMINA - PALOLO
DIAMOND HEAD - AINA HAINA
NIU - HAWAII KAI
KANEOHE
KAILUA
WAIMANALO
MILES

1970 CENSUS TRACTS
AND
1974-1975 CENSUS UPDATE SURVEY AREAS

ISLAND OF
OAHU
(HONOLULU AND VICINITY)

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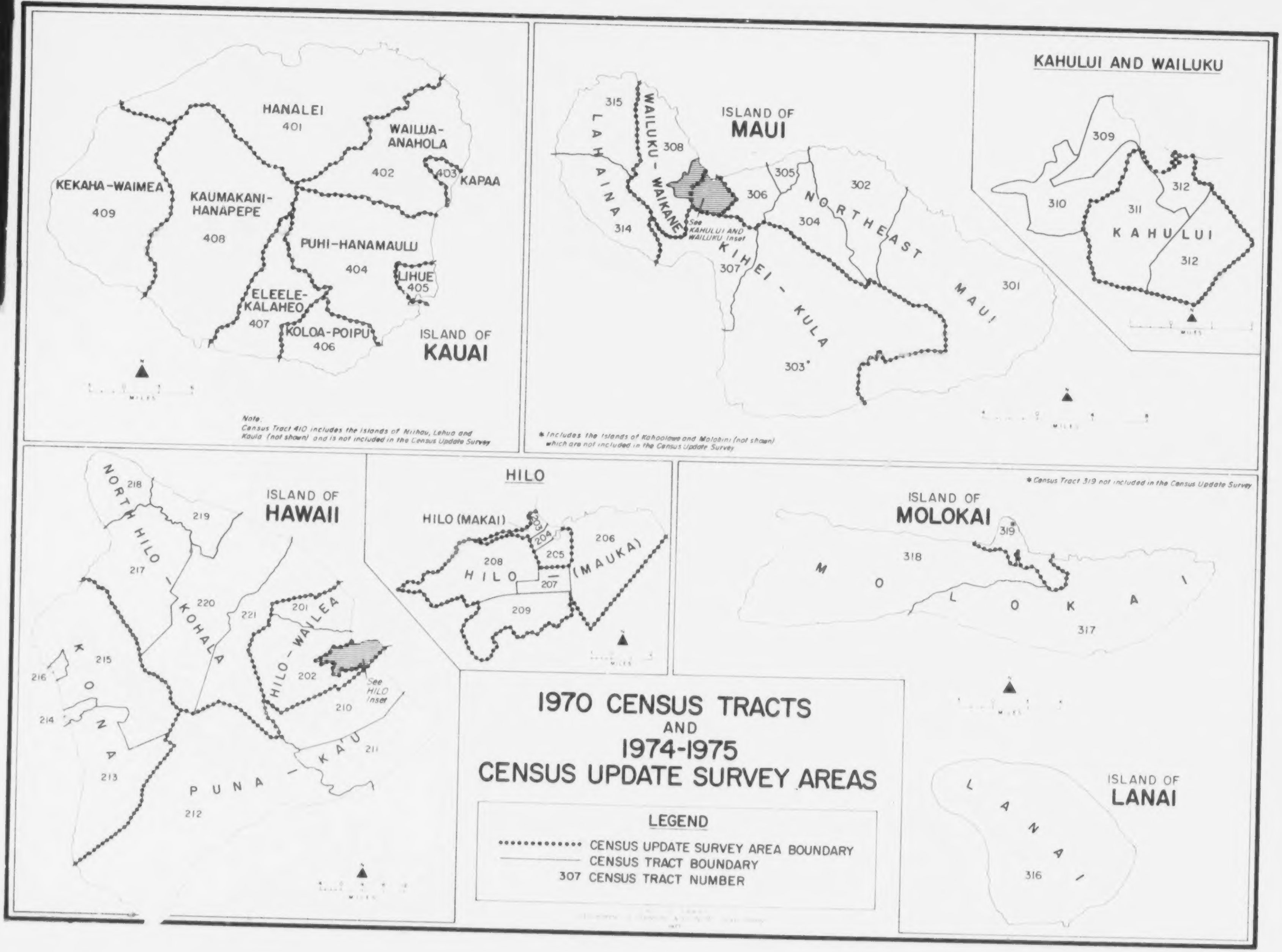

1970 CENSUS TRACTS AND 1974-1975 CENSUS UPDATE SURVEY AREAS

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WAILUA-ANAHOLA
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KAPAA
KEKAHA-WAIMEA
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KAUMAKANI-HANAPEPE
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PUHI-HANAMAULU
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LIHUE
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ELEELE-KALAHEO
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KOLOA-POIPU
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ISLAND OF
KAUAI
MILES
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LAHAINA
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WAILUKU - WAIKANE
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ISLAND OF
MAUI
See KAHULUI AND WAILUKU Inset
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NORTHEAST MAUI
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KIHEI - KULA
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303*
KAHULUI AND WAILUKU
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LANAI
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CENSUS TRACT BOUNDARY
307 CENSUS TRACT NUMBER

Note:
Census Tract 410 includes the islands of Niihau, Lehua and Kaula (not shown) and is not included in the Census Update Survey

* Includes the islands of Kahoolawe and Molokini (not shown) which are not included in the Census Update Survey

* Census Tract 319 not included in the Census Update Survey

Table 22.-- POPULATION CHARACTERISTICS, BY DISTRICTS: 1975

District 1/	Median age 2/ (years)	Percent born out of State 2/	Ethnic stock 2/ (percent)			Households	
			Caucasian 3/	Hawaiian 4/	Japanese	Average size	Median income 5/ (dollars)
Oahu, total	25.9	41.2	30.5	15.3	24.6	3.43	14,139
Niu-Hawaii Kai	27.3	44.2	41.9	12.0	25.9	3.77	25,986
Diamond Head-Aina Haina	34.4	38.8	40.1	10.5	27.0	3.61	26,600
Kaimuki-Kapahulu	32.8	18.4	11.8	11.8	48.6	3.52	14,301
Wilhelmina-Palolo	28.5	23.9	18.1	14.4	40.4	3.72	16,202
Manoa-Makiki	28.2	38.3	30.8	6.0	39.5	2.88	14,987
Moiliili-Makiki	24.3	38.1	21.9	9.8	39.9	2.48	11,864
Waikiki	31.2	75.8	65.6	5.8	10.0	1.94	10,302
Downtown-Kakaako	29.8	50.1	21.8	15.8	13.7	2.45	9,458
Nuuanu-Punchbowl	31.4	21.5	16.6	18.4	39.2	3.52	14,755
Upper Kalihi	28.8	32.7	5.1	14.9	29.0	4.18	14,226
Kalihi-Kapalama	27.2	35.3	5.1	18.9	17.7	3.39	10,061
Moanalua-Salt Lake	24.2	59.8	47.6	6.5	21.1	3.61	13,522
Aiea-Halawa	24.5	39.6	35.0	12.2	24.5	3.83	16,879
Pearl City	24.9	32.3	22.1	10.4	41.3	3.87	18,730
Pearl Harbor	18.8	76.0	66.4	8.0	3.3	4.26	12,133
Waipahu	22.3	46.4	20.7	10.3	20.0	4.19	12,760
Ewa-Makakilo	22.4	47.5	32.8	13.0	11.5	4.13	12,674
Waianae Coast	20.5	24.5	16.3	47.5	7.5	4.29	12,566
Mililani-Waipio	23.3	46.7	31.6	14.8	19.0	3.95	16,286
Wahiawa-Schofield	22.1	61.0	43.9	6.0	16.8	3.68	10,371
North Shore-Waialua	24.3	41.7	32.8	17.3	15.6	3.59	11,732
Upper Windward	24.4	40.3	32.8	28.2	12.4	3.77	16,040
Kaneohe	22.7	35.4	34.6	21.1	27.2	4.08	16,734
Kailua	25.8	47.1	53.6	22.0	11.8	3.52	19,815
Waimanalo	22.1	12.9	10.0	65.1	7.0	4.54	12,949

Continued on next page.

Table 22.-- POPULATION CHARACTERISTICS, BY DISTRICTS: 1975 -- Con.

District 1/	Median age 2/ (years)	Percent born out of State 2/	Ethnic stock 2/ (percent)			Households	
			Caucasian 3/	Hawaiian 4/	Japanese	Average size	Median income 5/ (dollars)
Hawaii County, total	28	20.8	22.1	25.3	30.4	3.38	11,337
Hilo-Wailea	30	18.2	16.7	18.0	30.7	3.47	10,131
Hilo (makai)	25	22.7	23.8	22.8	31.2	2.99	8,803
Hilo (mauka)	27	13.3	19.4	26.2	38.7	3.66	15,092
Puna-Ka'u	30	25.8	23.2	22.5	31.3	3.41	10,293
Kona	27	26.0	24.5	34.0	27.7	3.28	12,165
North Hilo-Kohala	29	22.7	24.6	25.9	19.8	3.43	9,946
Maui County, total	29.2	31.0	24.7	23.0	25.1	3.37	13,370
Northeast Maui	25.6	26.0	29.2	26.1	17.8	3.76	13,300
Kihei-Kula	31.9	51.8	53.9	18.7	14.1	2.87	14,980
Kahului	28.8	21.4	10.0	12.2	38.9	3.64	14,450
Wailuku-Waikapu	35.2	19.0	17.2	21.8	40.7	3.20	13,770
Lahaina	29.3	44.0	38.6	21.1	22.1	3.10	12,640
Molokai	24.9	23.6	6.7	50.6	9.8	3.96	9,970
Lanai	29.6	36.4	7.3	20.7	16.2	3.50	10,740
Kauai, total (1974)	27.1	...	...	...	...	3.45	10,750
Hanalei	23.7	...	...	...	...	3.47	11,600
Wailua-Anahola	26.9	...	...	...	...	3.40	13,620
Kapaa	24.9	...	...	...	...	3.52	10,190
Puhi-Hanamaulu	23.9	...	...	...	...	3.93	10,330
Lihue	28.5	...	...	...	...	3.12	14,290
Koloa-Poipu	27.0	...	...	...	...	3.24	10,600
Eleele-Kalaheo	29.7	...	...	...	...	3.23	9,680
Kaumakani-Hanapepe	35.3	...	...	...	...	3.38	7,750
Kekaha-Waimea	24.1	...	...	...	...	3.80	10,110

Continued on next page.

Table 22.-- POPULATION CHARACTERISTICS, BY DISTRICTS: 1975 -- Con.

1/ See maps immediately preceding this table. These districts consist of groupings of census tracts, which differ in most cases from the districts described in table 6 and the urban places described in table 7.

2/ Based on resident population, excluding inmates of institutions and persons living in military barracks or aboard ships.

3/ Includes persons of both Portuguese and non-Portuguese ancestry, reported separately in the source.

4/ Includes Part Hawaiians, reported separately in the source.

5/ Median income of households from all sources during 1974 (1973 for Kauai).

Source: Survey & Marketing Services, Inc., OEO 1975 Census Update Survey for Oahu (September 1976), Hawaii County (September 1976), and Maui County (February 1976); University of Hawaii, Center for Non-metropolitan Planning and Development, Kauai Socioeconomic Profile (May 1975).

Table 23.-- RELIGION: 1976 AND 1979

(Because of differences in questionnaire design, 1976 and 1979 data may not be directly comparable.)

Religious affiliation	Percent of persons surveyed		Percent of group active: June 1976 1/
	September 1979 2/	June 1976 1/	
All groups	100.0	100.0	41
Atheist, agnostic ..	4.5	3.1	11
Buddhist	11.8	10.7	33
Catholic	31.1	30.5	49
Jewish	0.3	0.5	19
Mormon	2.5	7.8	59
Protestant	34.2	23.5	42
Other	15.6	23.8	32

1/ Based on a sample of 4,309 persons on six islands, surveyed by the Oahu Public Communications Council of the Church of Jesus Christ of Latter-day Saints.

2/ Based on a sample of 1,335 persons on six islands, surveyed by the Hawaii Public Communications Council of the Church of Jesus Christ of Latter-day Saints.

Source: Oahu Public Communications Council of the Church of Jesus Christ of Latter-day Saints, The Purpose of Life Survey (pamphlet, 1976), and underlying printouts; Hawaii Public Communications Council of the Church of Jesus Christ of Latter-day Saints, "Religion Survey for BYU-HC" (printout of September 1979 survey).

Table 24.-- COMPONENTS OF CHANGE IN THE RESIDENT POPULATION BY MILITARY STATUS: 1960 TO 1970 AND 1970 TO 1979

Period and component	All groups	Armed forces	Civilian population		
			Military dependents	Not military dependents	
				Total	Annual average
1960 TO 1970 1/					
Net change	+137,141	+3,204	+1,801	+132,136	+13,214
Natural increase	125,519	-642	42,351	83,810	8,381
Live births	163,762	-	43,908	119,854	11,985
Deaths	38,243	642	1,557	36,044	3,604
Net military separations 2/.	-	+4,130	-	-4,120	-412
Net migration	+11,622	-274	-40,550	+52,446	+5,245
1970 TO 1979 3/					
Net change	+144,800	+2,800	+2,700	+139,400	+15,100
Natural increase	108,600	-400	33,000	76,000	8,200
Live births	148,100	-	34,500	113,600	12,300
Deaths	39,400	400	1,400	37,600	4,100
Net military separations 2/.	-	-2,200	-	+2,200	+200
Net migration	+36,200	+5,400	-30,400	+61,200	+6,600

1/ April 1, 1960 to March 31, 1970.
2/ Separations less inductions for armed forces.
3/ April 1, 1970 to June 30, 1979.
Source: Hawaii State Department of Planning and Economic Development, The Population of Hawaii, 1979 (Statistical Report 136, April 24. 1980), table 6.

Table 25.-- COMPONENTS OF CHANGE IN THE ALIEN POPULATION: 1971 TO 1979

Year	Aliens reporting, January	Components of change in alien population 1/			
		Immigrants admitted 2/	Aliens naturalized	Alien deaths	Other components 3/
1971	57,187	6,055	2,135	994	+1,021
1972	60,898	6,765	2,389	1,009	-443
1973	63,034	6,881	2,099	997	-2,019
1974	64,430	6,549	2,833	963	-1,601
1975	65,339	7,012	3,094	991	-1,059
1976	68,164	7,789	3,130	950	-2,095
1976, 3 mo.	...	1,882	1,118	224	-440
1977	68,567	7,825	4,532	886	-1,263
1978	69,958	9,053	3,672	915	-4,370
1979	69,622	(NA)	(NA)	942	(NA)

NA Not available.

1/ Years ended June 30, 1971 through 1976; three-month period ended September 30, 1976; years ended September 30, 1977 forward.

2/ The 1975 figure excludes approximately 2,000 Vietnamese refugees still in parole status at the end of the fiscal year; these immigrants were counted in later years upon admission under the regular immigration program.

3/ Implicit change resulting from emigration and interstate migration. Calculated as a residual from data on net change (as interpolated from the January alien address reports), immigration, naturalization, and alien deaths. These estimates are affected by both underreporting in the alien address reports and delayed inclusion of refugee aliens in the annual immigration totals.

Source: Aliens who reported under the alien address program, immigrants admitted, and aliens naturalized from the U.S. Immigration and Naturalization Service, Annual Report (annual) and records; alien deaths from the Hawaii State Department of Health, records; other components of change calculated as a residual by the Hawaii State Department of Planning and Economic Development.

Table 26.-- INTENDED RESIDENTS ARRIVING IN HAWAII FROM THE MAINLAND UNITED STATED: 1969 TO 1979

Calendar year	Number arriving, by military status: Total	Military personnel	Military dependents	Other civilians
1969	41,162	12,198	8,336	20,628
1970	40,073	8,561	7,129	24,383
1971	41,562	9,355	8,649	23,558
1972	44,388	10,267	11,637	22,484
1973	36,886	9,200	6,180	21,506
1974	37,007	9,421	8,744	18,842
1975	39,233	10,006	10,887	18,340
1976	40,690	10,991	10,518	19,181
1977	43,617	12,361	12,771	18,485
1978 1/ .	39,476	12,294	11,783	15,399
1979 1/ .	22,559	5,283	4,699	12,577

Calendar year	Persons per party	High status 2/ (percent)	Median age (years)	From West Coast 3/ (percent)
1969	1.45	61.9	24.0	41.2
1970	1.44	65.6	24.4	42.8
1971	1.48	64.2	24.3	38.6
1972	1.57	64.7	24.1	35.1
1973	1.40	61.6	24.2	39.1
1974	1.53	67.4	24.2	42.4
1975	1.58	67.3	23.6	35.1
1976	1.55	67.1	24.3	34.1
1977	1.64	70.2	24.0	30.1
1978 1/ .	1.63	70.3	24.4	29.9
1979 1/ .	1.58	68.7	25.7	37.6

1/ Totals for 1978 and 1979 apparently reflect changes in passenger response rates resulting from a redesigned questionnaire introduced in July 1978 and withdrawn in July 1979. It is likely that the number of intended residents arriving during these years was significantly higher than the totals shown here.

2/ Party heads classified as professional, technical, business, managerial, or official as a percent of all party heads reporting civilian occupations.

3/ Persons from California, Oregon, or Washington State as a percent of all persons reporting previous residence.

Source: Hawaii State Department of Planning and Economic Development, Hawaii's In-Migrants (annual).

Table 27.-- IMMIGRANTS ADMITTED, BY COUNTRY OF BIRTH: 1970 TO 1978

(For years ended June 30 through 1976 and September 30 thereafter. Data refer to immigrants admitted to the U.S., reporting Hawaii as their State of intended permanent residence.)

Year	Total 1/	Canada	China and Taiwan	Japan	Korea	Philippines	Vietnam 1/	Other countries
1970 2/	9,013	90	423	363	596	6,426	1,115	
1971	6,055	81	271	409	568	3,704	1,022	
1972	6,765	92	392	603	868	3,764	1,046	
1973	6,881	64	455	544	1,305	3,179	1,334	
1974	6,549	64	429	464	1,127	3,418	1,047	
1975	7,012	87	555	587	1,476	2,913	196	1,198
1976	7,789	110	631	556	1,515	3,222	341	1,414
1976, July-Sept. ..	1,882	45	153	(OC)	278	859	(OC)	547
1977	7,825	175	527	495	1,488	3,568	137	1,435
1978	9,053	223	409	394	965	4,398	1,136	1,528

OC Included with "other countries."

1/ Data exclude Vietnamese refugees still in parole status at the end of each reporting period. Such persons are counted when reclassified under one of the regular immigration programs.

2/ Because of a change in tabulation procedures in 1970, officials have noted the possibility of some double-counting in the data for this year.

Source: U.S. Immigration and Naturalization Service, Annual Report for 1970-1977, and records.

Table 28.-- RESIDENCE ONE YEAR EARLIER, BY MILITARY STATUS: 1979

(Excludes persons under one year old and residents of military barracks, institutions, Kalawao, and Niihau. Based on a sample survey of 4,459 persons.)

Place of residence one year earlier	All groups	Armed forces	Military dependents	Other civilians
Population 1 and over	867,099	30,760	48,482	787,857
Same house	718,860	15,766	27,906	675,188
Different house, same island	91,000	7,738	7,082	76,179
Different island	5,335	-	-	5,335
Different state	33,646	6,022	12,346	15,278
U.S. territory or possession	627	128	191	307
Different country	8,417	855	956	6,606
Previous residence not reported .	9,213	250	-	8,964
Migrants 1/	42,690	7,005	13,493	22,191
Percent of number reporting ...	5.0	23.0	27.8	2.8

1/ From different state, territory, or country.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Section 2

VITAL STATISTICS AND HEALTH

This section presents data on births, deaths, marriages, divorces, morbidity, drug abuse, hospitals, and health personnel.

Vital indexes generally reflect the high health standards of Hawaii. Expectation of life at birth was 74 years for males and 78 years for females in 1975. The crude death rate in 1979 was only 5.6 per 1,000 resident population. Deaths under one year of age per 1,000 live births numbered 12.0 in 1978. Diseases of the heart have accounted for almost a third of all deaths in recent years; cancer, for over one-fifth. The 1979 crude birth rate was 19.2 per 1,000 resident population. The total fertility rate for civilians fell from 3,360 per 1,000 women in 1960 to 2,461 in 1970 and 1,821 in 1975. Over 98 percent of all babies were born in hospitals in 1978, and over one-fifth were born to military couples. One out of six births was illegitimate. There were 7,273 fetal deaths in 1978, including 5,806 elective abortions. Marriages numbered 11,679 in 1979, with about 22 percent accounted for by nonresidents. Divorces reached a 1979 total of 5,056. The State had 22 acute care civilian hospitals (with 2,260 beds), 32 skilled nursing and intermediate care facilities (with 2,355 beds), and 264 care homes (with 1,460 beds) in 1978. There were 1,643 physicians and surgeons, 616 dentists, 5,583 professional nurses, and 364 pharmacists licensed and living in Hawaii as of May 1980. Acute conditions per 100 persons averaged 170 per year in 1977-1978, with respiratory conditions the most common complaint (at 112 cases per 100 persons). Among chronic conditions reported in the 1977-1978 survey data, the most frequently mentioned were hypertension without heart involvement (6.4 per 100 persons), hay fever (5.0), and asthma (3.6). The most common communicable disease reported to authorities in 1978 was scarlet fever with 4,959 cases. State mental health facilities served 11,642 patients in 1978, but the number of in-patients at the end of the year was only 263. Dental health was only fair: the average number of decayed, missing or filled teeth when last surveyed was 6.85 for intermediate school students and 10.61 for those in high school.

Major sources for data on vital statistics and health are the annual statistical reports of the Hawaii State Department of Health and various publications of the U.S. Public Health Service. Long-term trends are traced in Historical Statistics of Hawaii, Section 2. Sections 2 and 4 of the Statistical Abstract of the United States: 1979 contain similar data for the nation as a whole.

Table 29.-- BIRTHS AND DEATHS: 1969 TO 1979

(Place of occurrence basis)

Calendar year	Births	Deaths 1/	Rates per 1,000 resident population		Rates per 1,000 live births		
			Births	Deaths 1/	Illegitimate births	Fetal deaths 2/	Infant deaths 3/
1969 ...	15,690	4,214	20.9	5.6	96.6	13.7	19.2
1970 ...	16,467	4,197	21.3	5.4	95.8	20.6	19.1
1971 ...	15,845	4,351	19.9	5.5	88.4	23.5	16.0
1972 ...	15,413	4,483	18.8	5.5	93.0	22.8	17.5
1973 ...	15,358	4,579	18.2	5.4	104.0	16.4	13.7
1974 ...	15,528	4,598	18.2	5.4	108.8	16.3	16.0
1975 ...	15,766	4,572	18.2	5.3	123.2	18.9	13.7
1976 ...	16,409	4,717	18.6	5.3	125.0	20.8	11.2
1977 ...	16,983	4,725	19.0	5.3	143.3	21.6	12.3
1978 ...	16,762	4,860	18.6	5.4	160.1	13.5	12.0
1979 ...	17,570	5,138	19.2	5.6	(NA)	(NA)	(NA)

NA Not available.
1/ Includes armed forces.
2/ 20 weeks gestation and over. Includes elective abortions.
3/ Under 1 year of age.

Source: Hawaii State Department of Health, "Vital Statistics and Population of Hawaii, 1900 to 1973," R & S Report, No. 5 (June 1974); Statistical Report for 1973-1978; and "Preliminary Vital Statistics Summary, State of Hawaii, 1979."

Table 30.-- BIRTHS, DEATHS, AND BIRTH AND DEATH RATES, BY MILITARY STATUS 1977 TO 1979

(Place of occurrence basis.)

Subject	All groups	Armed forces	Civilians: All civilians	Civilians: Military dependents	Civilians: Other civilians	Armed forces and dependents
De facto population: 1/						
1977	970,600	56,500	914,100	65,000	849,100	121,500
1978	990,500	58,300	932,200	61,100	871,100	119,400
1979	1,012,900	57,900	955,000	64,500	890,500	122,400
Live births:						
1977	16,983	-	16,983	3,771	13,212	3,771
1978	16,762	-	16,762	3,656	13,106	3,656
1979	17,570	-	17,570	3,784	13,786	3,784
Deaths:						
1977	4,724	76	4,648	156	4,492	232
1978	4,860	80	4,780	147	4,633	227
1979	5,138	85	5,053	155	4,898	240
Birth rate: 3/						
1977	17.5	0	18.6	58.0	15.6	31.0
1978	16.9	0	18.0	59.8	15.0	30.6
1979	17.3	0	18.4	58.7	15.5	30.9
Death rate: 3/						
1977	4.9	1.3	5.1	2.4	5.3	1.9
1978	4.9	1.4	5.1	2.4	5.3	1.9
1979	5.1	1.5	5.3	2.4	5.5	2.0

1/ Estimates for armed forces are from the Bureau of the Census; for dependents, from annual DPED survey of local commanding officers.

2/ Provisional.

3/ Per 1,000 de facto population. For rates based on resident population, see preceding table.

Source: Population from Hawaii State Department of Planning and Economic Development, Statistical Report 136 (April 24, 1980), tables 1 and 2; births and deaths from Hawaii State Department of Health, Statistical Report for 1977 and 1978, and records.

Table 31.-- FERTILITY RATES, BY MILITARY STATUS: 1960, 1970, AND 1975

Type of rate and military status 1/	1960	1970	1975
Crude birth rate, all groups 2/	27.2	21.4	18.1
Civilian	22.9	19.1	15.9
Military	48.8	35.1	31.0
General fertility rate, all groups 3/	127.8	96.1	77.9
Civilian	106.2	84.8	66.6
Military	250.5	169.5	165.4
Total fertility rate, all groups 4/	3,886.5	2,728.5	2,095.0
Civilian	3,360.5	2,461.5	1,821.5
Military	6,480.5	4,275.0	4,130.5
Gross reproduction rate, all groups 5/	1,884.0	1,318.0	1,017.0
Civilian	1,628.0	1,189.5	885.5
Military	3,140.0	2,065.5	2,007.0

1/ Military dependents are included in the military category.

2/ The annual number of live births per 1,000 resident population in the group.

3/ The annual number of live births per 1,000 women of childbearing age.

4/ The average number of children to whom 1,000 women would give birth according to a set of fertility rates providing the women survive the childbearing years. Equals the sum of single year age-specific birth rates.

5/ The average number of girls to whom 1,000 women would give birth according to a set of fertility rates providing the women survive the childbearing years. Equals the sum of single year female age-specific birth rates.

Source: Calculated by Eleanor C. Nordyke of the East-West Population Institute from the following sources: Eleanor C. Nordyke, The Peopling of Hawaii (University Press of Hawaii, 1977), table 7; Hawaii Department of Planning and Economic Development, Statistical Report 120, table 1; Hawaii Department of Health Annual Report, Statistical Supplement 1976, p. 1; Hawaii, DPED Economic Research Reports, "A Long-Range Population and Economic Simulation Model" (Preliminary), Dec. 22, 1977, table A-2.

Table 32.-- CHARACTERISTICS OF RESIDENT BIRTHS: 1968 TO 1978

[Excludes births to Hawaii residents out of State]

Subject	1968	1977	1978
Number of resident births	14,470	16,874	16,717
Rate per 1,000 population	19.7	18.9	18.6
Percent on Oahu	84.5	79.4	77.8
Percent attended by M.D. in hospital 1/	99.3	97.4	98.6
Males per 100 females	106.3	106.1	110.3
Percent of mixed race 1/, 2/	40.9	46.0	46.6
Median weight of single births (grams) 1/	3,204	3,272	3,400
Percent premature (under 2,500 grams) 1/	9.3	7.5	7.4
Percent single births under 40 weeks gestation	(NA)	47.8	47.6
Percent plural 1/	1.7	1.8	1.7
Percent with 1 or more congenital malformations 1/	1.1	0.8	0.9
Percent illegitimate	9.2	14.3	16.0
Percent with prenatal visit in first three months 1/	64.2	70.2	71.6
Percent first child born to mother 1/	36.3	35.4	34.5
Percent first child born alive to mother	(NA)	41.9	42.4
Median age of mothers (years) 1/	25.0	25.6	25.7
Median age of known fathers (years) 1/	28.4	28.4	28.6

NA Not available.

1/ Data for 1968 are on a place of occurrence basis.

2/ All Part Hawaiian babies are classified as mixed. Base excludes births with unknown parentage.

Source: Hawaii State Department of Health, Statistical Report (annual).

Table 33.-- MOST COMMON NAMES ON BIRTH CERTIFICATES: 1909-1914, 1950, AND 1978

Sex and rank	1978 1/		1950	1909-1914
	Name	Number		
Boys' names:				
1	Jason	206	John	John ....
2	Michael	205	Michael	William ......
3	Christopher	197	Robert	George ....
4	David	175	William	Antonio ......
5	Ryan	140	Dennis	Joseph ....
Girls' names:				
1	Jennifer	215	Linda	Maria ....
2	Michelle	110	Kathleen	Mary ....
3	Jessica	88	Sharon	Amelia ....
4	Christina	77	Carol	Helen ....
5	Melissa	76	Charlene	Elizabeth ....

1/ A total of 4,736 first names (including variant spellings) were reported for the 16,762 babies born in Hawaii in 1978.

Source: Hawaii State Department of Health, Research and Statistics Office, printout of 1978 records; Bob Krauss, "Today's lesson: the name game," Honolulu Advertiser, September 14, 1979, p. A-3.

Table 34.-- CHARACTERISTICS OF RESIDENT DEATHS: 1968 TO 1978

[Excludes deaths of Hawaii residents in other areas]

Subject	1968	1977	1978
Number of resident deaths	4,071	4,349	4,508
Rate per 1,000 population	5.5	4.9	5.0
Percent on Oahu	73.6	74.5	73.8
Males per 100 females	159.5	152.1	151.8
Median age (years)	65.3	67.6	68.8
Number of deaths under 1 year 1/	277	196	186
Per 1,000 live births 1/	19.0	11.6	11.1
Fetal deaths 2/	1,097	6,685	7,273
Per 1,000 deliveries	70	284	303
Fetal deaths, 20 or more weeks gestation 1/, 2/	209	367	223
Per 1,000 live births 1/, 2/	14.3	21.7	13.3
Standard fetal deaths 3/	1,086	1,578	1,467
Elective abortions	11	5,050	5,806
Per 1,000 live births	0.8	299	347

1/ Data for 1968 are on a place of occurrence basis.
2/ Includes elective abortions.
3/ Excludes elective abortions.
Source: Hawaii State Department of Health, Statistical Report (annual).

Table 35.-- CAUSE OF DEATH: 1968 AND 1978

[Place of residence basis. Data include armed forces deaths.]

Cause of death 1/	Number, 1978	Percent distribution		Rate per 100,000 population	
		1978	1968 2/	1978	1968 2/
All causes	4,508	100.0	100.0	502.8	584.1
Diseases of the heart	1,441	32.0	32.8	160.7	191.5
Malignant neoplasms	1,015	22.5	19.1	113.2	111.5
Cerebralvascular diseases	445	10.0	8.4	49.6	48.9
All accidents	280	6.2	6.5	31.2	38.2
Influenza and pneumonia	145	3.2	4.2	16.1	24.2
Diabetes Mellitus	119	2.6	2.4	13.3	13.9
Suicide	106	2.4	1.4	11.8	8.1
Mortality in early infancy	87	1.9	4.0	9.7	23.5
Cirrhosis of liver	65	1.4	1.6	7.2	9.1
Congenital anomalies	56	1.2	1.7	6.2	10.0
Homicide	55	1.2	0.5	6.1	3.1
Bronchitis, emphysema, asthma	48	1.1	2.1	5.3	12.0
All other causes	646	14.3	15.4	72.1	90.0

1/ The leading causes of death in 1978, listed in order of deaths for that year.

2/ Excluding armed forces.

Source: Statistical Report, Department of Health, State of Hawaii, 1978, p. 23.

Table 36.-- DEATHS OCCURRING IN HAWAII, BY METHOD OF DISPOSITION: 1956 TO 1978

Calendar year	All deaths	Burial	Cremation	Removal	Other methods 1/	Unknown 2/
EXCLUDING ARMED FORCES						
1956	3,084	1,812	1,117	155		-
1957	3,335	1,919	1,255	161		-
1958	3,128	1,752	1,206	170		-
1959	3,314	1,924	1,204	186		-
1960	3,540	2,118	1,219	203		-
1961	3,367	1,890	1,266	211		-
1962	3,512	2,011	1,264	237		-
1963	3,643	2,043	1,358	235	7	-
1964	3,638	2,092	1,274	254	18	-
1965	3,705	2,013	1,405	277	8	2
1966	3,770	2,085	1,362	297	22	4
1967	3,897	2,117	1,422	331	18	9
1968	4,192	2,318	1,492	366	16	-
1969	4,146	2,177	1,539	399	23	8
1970	4,125	2,187	1,509	408	16	5
1971	4,304	2,237	1,614	415	38	-
1972	4,430	2,291	1,688	411	28	12
1973	4,509	2,319	1,699	443	39	9
INCLUDING ARMED FORCES						
1968	4,250	2,325	1,495	414	16	-
1969	4,214	2,190	1,542	451	23	8
1970	4,197	2,197	1,509	470	16	5
1971	4,350	2,243	1,618	451	38	-
1972	4,483	2,298	1,692	453	28	12
1973	4,577	2,337	1,702	489	39	10
1974	4,601	2,265	1,731	569	31	5
1975	4,575	2,259	1,759	525	30	2
1976	4,719	2,249	1,893	571	6	-
1977	4,725	2,213	1,931	573	7	1
1978	4,860	2,255	1,995	574	27	9

1/ Entombment, educational purposes, and other methods.

2/ Includes persons lost at sea.

Source: Hawaii State Department of Health, Statistical Report (annual) and records.

Table 37.-- SELECTED LIFE TABLE VALUES: 1975

Exact age in years (x)	Average expectation of life in years (e_x)		Number surviving to specified age per 1,000 born alive (l_x)	
	Male	Female	Male	Female
Birth	74.03	77.85	1,000	1,000
Age 25	51.36	54.36	966	980
Age 45	32.97	35.32	929	958
Age 65	17.43	17.94	768	863

Source: Hawaii State Department of Health, "Life Tables by Ethnic Group for Hawaii, 1920-1970" (by Chai Bin Park, Robert W. Gardner, and Eleanor C. Nordyke), R & S Report, No. 26, June 1979, p. 27.

Table 38.-- ACUTE CONDITIONS: ANNUAL AVERAGES, 1977-1978

Acute condition	Number of conditions	Conditions per 100 persons
All acute conditions	1,462,026	169.6
Infective parasitic diseases	111,485	12.9
Respiratory condition	965,857	112.0
Influenza	267,652	31.0
Common cold	546,530	63.4
Other respiratory condition	151,675	17.6
Digestive system condition	31,360	3.6
Injuries	172,057	20.0
All other acute conditions	181,266	21.0

Source: Hawaii State Department of Health, Statistical Report, 1978, p. 66.

Table 39.-- CHRONIC CONDITIONS: 1977-1978

Selected chronic conditions	Persons with condition	Conditions per 1,000 persons
Heart condition	16,866	19.6
Impairments of back or spine	28,295	32.8
Hypertension without heart involvement	54,794	63.6
Arthritis/rheumatism	21,151	24.5
Hearing impairment	20,205	23.4
Asthma, with or without hayfever	31,034	36.0
Diabetes	19,302	22.4
Mental and nervous condition	14,757	17.1
Visual impairment	9,005	10.4
Malignant neoplasms	4,983	5.8
Chronic and allergic skin conditions	20,788	24.1
Chronic sinusitis	20,363	23.6
Hayfever without asthma	43,441	50.4
Stomach ulcer	7,974	9.2
Bronchitis/emphysema	9,114	10.6
Benign and unspecified neoplasms	6,074	7.0
Hemorrhoids	12,507	14.5
Thyroid/goiter	4,783	5.5
Varicose veins	4,854	5.6
Gout	9,955	11.5

Source: Hawaii State Department of Health, Statistical Report, 1978, p. 60.

Table 40.-- SPECIFIED COMMUNICABLE DISEASES: 1977 AND 1978

Disease	Cases		Deaths	
	1977	1978	1977	1978
All reportable diseases	14,198	11,079	24	16
Chickenpox	948	685	-	-
Gonorrhea	4,256	3,409	-	-
Hepatitis, infect. & serum	239	253	5	2
Influenza	585	352	1	-
Leprosy	27	31	-	1
Measles (Rubeola)	51	9	-	-
Measles, German (Rubella)	438	13	-	-
Meningitis, all types	84	94	11	4
Mumps	42	38	-	-
Salmonellosis	603	485	1	-
Scarlet fever, other strep.	5,919	4,959	-	-
Syphilis	89	105	-	-
Tuberculosis	584	290	6	8
All others	333	356	-	1

Source: Hawaii State Department of Health, Statistical Report, 1978, p. 91.

Table 41 .-- LIMITATION OF ACTIVITY DUE TO CHRONIC OR ACUTE CONDITIONS: ANNUAL AVERAGES, 1977-1978

Type of limitation	Number
Persons with 1 or more chronic conditions	303,497
No limitation of activity	256,109
Limited, but not in major activity	19,532
Limited in amount or kind of activity	17,614
Unable to carry on major activity	10,241
Restricted days in past 12 months	10,612,444
Per person 1/	12.3
Bed days in past 12 months	4,030,035
Per person 1/	4.7
Work days lost in past 12 months by employed persons 17 to 65 years old	1,709,151
Per employed person 17 to 65 1/	4.6
School days lost in past 12 months by pupils 6 to 16 years old	593,326
Per pupil 6 to 16 1/	3.3

1/ Base includes persons without chronic or acute conditions or restricted activities.

Source: Hawaii State Department of Health, Statistical Report, 1978, pp. 64, 68 and 69.

Table 42.-- LEPROSY PATIENTS REGISTERED: 1975 TO 1979

Subject	1975	1976	1977	1978	1979
Patients on register, Dec. 31 ..	405	421	421	437	458
Medically released	400	417	417	434	458
At home	264	284	288	304	328
Kalaupapa	135	131	128	127	124
Hale Mohalu or Leahi	1	2	1	3	6
Not medically released	5	4	4	3	-
Net annual increase	12	16	-	16	21
New cases added	30	34	27	31	33
Cases returned to register ...	5	6	3	2	2
Deaths	11	6	5	5	5
Left the State	10	15	14	10	1
Discharged	2	3	11	2	8

Source: Hawaii State Department of Health, Statistical Report, 1979 (forthcoming).

Table 43.-- ADMISSIONS FOR TREATMENT OF ALCOHOL AND DRUG ABUSE: 1978 AND 1979

(Admissions to facilities funded by the Alcohol and Drug Abuse Branch of the Hawaii State Department of Health. Data include readmissions.)

Substance	Admissions	
	1978	1979
Alcohol	2,649	2,932
Drugs, total	999	962
Heroin	426	349
Other opiates	16	16
Barbiturates	72	67
Amphetamines	17	21
Cocaine	18	21
Marijuana	205	217
Hallucinogens	28	27
Inhalants	47	87
Other	25	37
No primary drug reported	145	120

Source: Hawaii State Department of Health, Alcohol and Drug Abuse Branch, information supplied July 16, 1980.

Table 44.-- HOSPITAL AND CARE HOME FACILITIES AND USE, BY TYPE OF INSTITUTION: 1978

Category	Number of institutions 1/	Beds, end of year	Admissions	Daily census	Length of stay	Percent occupancy
Acute care hospitals:						
Civilian	22	2,260	94,606	1,558.8	6.0	69.0
Military	1	538	19,149	430.9	8.2	80.1
Specialty long-term care hospitals 2/	8	1,038	1,910	804.4	435.2	77.5
Skilled nursing and intermediate care facilities	32	2,355	2,611	2,160.7	302.1	91.7
Care homes:						
Residential	15	497	...	...	...	...
Family	249	963	...	...	...	...

1/ Some institutions are included in more than one category.

2/ Psychiatric, tuberculosis, mentally retarded, and other specialty long-term care hospitals.

Source: Hawaii State Department of Health, Statistical Report, 1978, pp. 74-77 and 146.

Table 45.-- BEDS IN HOSPITALS AND CARE HOMES, BY ISLANDS: 1978

Island	Total beds	Acute care hospitals		Specialty long-term care hospitals 1/	Skilled nursing, intermed. care facilities	Care homes
		Civilian	Military			
State total ..	7,651	2,260	538	1,038	2,355	1,460
Hawaii	663	271	-	-	336	56
Maui	532	149	-	-	346	37
Lanai	14	6	-	-	8	-
Molokai	119	25	-	24	6	64
Oahu	5,890	1,675	538	994	1,538	1,145
Kauai	433	134	-	20	121	158

1/ Includes psychiatric, tuberculosis, mentally retarded, and other hospitals.

Source: Hawaii State Department of Health, Statistical Report, 1978, pp. 74-77 and 146.

Table 46.-- PATIENTS SERVED BY STATE MENTAL HEALTH FACILITIES: 1977 TO 1979

Year	Patients active, end of period			Admissions		Termina-tions	Patients served (undup.)
	Total	In-patients	Out-patients	Total	Unduplicated		
1977 ..	6,905	226	6,679	5,453	5,171	5,529	11,806
1978 ..	6,886	263	6,623	5,441	5,068	5,522	11,642
1979 ..	6,392	333	6,059	4,564	4,265	5,057	10,713

Source: Hawaii State Department of Health, Statistical Report (annual) and records.

Table 47.-- HAWAII STATE HOSPITAL BEDS AND OCCUPANCY: 1970 TO 1980

(Hawaii State Hospital is the only large psychiatric hospital in Hawaii.)

Year	Number of beds, June 30 1/	Admissions 2/		Patients in hospital	
		Total 3/	First	Average 2/	June 30
1970	687	1,052	714	577	564
1971	687	1,015	691	568	421
1972	419	726	480	371	260
1973	260	761	367	229	235
1974	224	869	402	251	297
1975	235	894	404	269	290
1976	235	1,008	484	273	232
1977	199	994	470	243	192
1978	199	737	350	179	169
1979	199	787	315	184	204
1980	199	816	321	226	239

1/ Exact date not specified for 1970-1973.

2/ Year ended June 30.

3/ Excluding returns from conditional discharge, a classification that was eliminated after fiscal year 1973-1974.

Source: Hawaii State Hospital, records.

Table 48.-- WAIMANO TRAINING SCHOOL AND HOSPITAL BEDS AND PATIENTS: 1970 TO 1980

(Waimano Training School and Hospital is the State institution for the mentally retarded.)

Year	Beds, June 30	Admissions 1/	Patients in residence		Patients on leave, June 30
			Average 2/	June 30	
1970	753	82	747	753	453
1971	761	49	749	761	435
1972	747	36	741	723	456
1973	754	38	717	705	464
1974	754	37	694	702	473
1975	754	17	660	638	525
1976	754	10	602	587	546
1977	600	12	529	535	572
1978	600	13	491	482	599
1979	600	13	441	446	613
1980	575	12	437	423	627

1/ Year ended June 30. Excluding returns from community placement.
2/ Year ended June 30.
Source: Hawaii State Department of Health, Statistical Report (annual); Waimano Training School and Hospital, records.

Table 49.-- PHYSICIANS, DENTISTS, NURSES, AND PHARMACISTS LICENSED IN HAWAII, BY PLACE OF RESIDENCE: MAY 21, 1980

Place of residence	Physicians and surgeons 1/	Dentists	Registered nurses	Pharmacists
Total licensed	2,493	822	7,413	565
Hawaii residents ...	1,643	616	5,583	364
Hawaii	117	57	469	30
Maui	100	32	357	28
Lanai	3	1	12	-
Molokai	3	4	25	2
Oahu	1,361	503	4,518	289
Kauai	59	19	202	15
Niihau	-	-	-	-
Nonresidents	850	206	1,830	201

1/ Permanent only.

Source: Hawaii State Department of Regulatory Agencies, Professional and Vocational Licensing Division, records.

Table 50.-- MARRIAGES AND DIVORCES: 1970 TO 1979

(Place of occurrence basis.)

Calendar year	Marriages	Divorces and annulments 1/	Rate per 1,000 resident population		Percent of marriages	
			Marriages	Divorces 1/	Resident grooms	Interracial
1970 ...	10,599	2,589	13.7	3.3	69.3	33.7
1971 ...	9,734	3,691	12.2	4.6	77.3	38.7
1972 ...	9,750	3,891	11.9	4.7	81.3	38.6
1973 ...	9,776	4,170	11.6	4.9	84.7	40.6
1974 ...	9,649	4,111	11.3	4.8	84.6	40.1
1975 ...	9,673	4,265	11.1	4.9	84.4	39.6
1976 ...	9,769	4,712	11.1	5.3	82.4	38.8
1977 ...	10,266	4,601	11.5	5.2	79.3	37.5
1978 ...	10,736	4,837	11.9	5.4	77.7	37.9
1979 ...	11,679	5,056	12.8	5.5	(NA)	(NA)

NA Not available.

1/ Final decrees only. An interlocutory decree of one year was established May 8, 1965, reduced to six months on July 3, 1969, and abolished July 1, 1971.

Source: Hawaii State Department of Health, "Vital Statistics and Population of Hawaii, 1900 to 1973," R & S Report, No. 5 (June 1974); Annual Report, Statistical Supplement for 1970-1978; and "Preliminary Vital Statistics Summary, State of Hawaii, 1979."

Table 51.-- CHARACTERISTICS OF MARRIAGES AND DIVORCES: 1968 TO 1978

[Place of occurrence basis.]

Subject	1968	1977	1978
MARRIAGES			
Number	9,021	9,769	10,736
Percent on Oahu	86.9	78.0	73.0
Percent Hawaii residents:			
Both bride and groom	66.6	79.6	75.2
One partner only	10.2	5.5	5.3
Neither bride nor groom	23.2	14.9	19.4
Median age (years):			
Groom	24.4	27.0	27.9
Bride	22.9	24.5	25.3
Percent previously married:			
Groom	19.4	33.4	36.5
Bride	20.0	32.2	35.3
DIVORCES AND ANNULMENTS			
Number 1/	1,865	4,712	4,837
Divorces	1,838	4,687	4,821
Annulments	27	25	10
Percent occurring on Oahu	86.0	83.6	81.8
Percent nonresident:			
Husband	13.5	11.0	12.4
Wife	14.7	12.4	11.8
Neither partner	71.9	76.6	75.9
Median age (years):			
Husband	35.2	31.6	32.3
Wife	31.8	29.0	29.6
Percent interracial	35.9	37.6	38.6
Percent with children under 18 years	55.4	58.5	54.7
Median years married	7.3	5.5	5.7

1/ Includes unspecified type of decree (6 in 1978).

Source: Hawaii State Department of Health, Statistical Report (annual).

Section 3

EDUCATION

This section presents statistics on enrollment in public and private schools, colleges and universities; students graduated and degrees awarded; the highest grade of school completed; school facilities, personnel, and expenditures; and libraries.

Enrollment in elementary, intermediate and high schools in 1979-1980 totaled 205,580, about 0.6 percent less than in the preceding year and 4.6 percent below the all-time high reached in 1971-1972. There were 229 public schools with 8,291 classroom teachers and 168,393 students (81.9 percent of the total). There were also 140 private schools with 2,059 teachers and 37,187 pupils. Students graduating from public and private high schools in 1978-1979 numbered 14,097. Some 49,508 students attended colleges and universities in the State in 1979-1980, including 20,833 on the Manoa Campus of the University of Hawaii, 258 at West Oahu College, 3,099 at UH-Hilo, 19,185 at six community colleges, and 6,133 in four private colleges and universities. Eighty-seven percent of the children 5 and 6 years old were in school in 1970 (compared with 68 percent in 1950), and 53 percent in the 18- and 19-year-old group were enrolled (compared with 36 percent twenty years earlier). The expenditure per pupil in public schools rose from $818 in 1969-1970 to $1,981 in 1978-1979. Among adults, the illiteracy rate dropped from 8.4 percent in 1950 to 1.9 percent in 1970, and by 1979 approximately 21.3 percent of all residents 25 years of age or more could report having completed four or more years of college. The Hawaii State Library System, with 46 locations in all four counties, had 3.15 million books, film reels, phonorecords, and other collections in 1979, with an annual circulation of 5.01 million; the University of Hawaii libraries in the same year counted 2.00 million volumes.

The principal sources of data on education are the U.S. Bureau of the Census, U.S. Department of Health, Education, and Welfare, Hawaii State Department of Education, University of Hawaii and private colleges and universities. Historical Statistics of Hawaii, Section 9, contains Island data back to 1820. Section 5 of the Statistical Abstract of the United States: 1979 presents comparable information for the nation as a whole.

Table 52.-- SCHOOLS, TEACHERS, PUPIL MEMBERSHIP, AND HIGH SCHOOL GRADUATES, FOR PUBLIC AND PRIVATE SYSTEMS: 1969-1970 TO 1979-1980

School year	Schools 1/			Teachers 1/		
	Total	Public	Private	Total	Public	Private
1969-70 ...	339	216	123	8,851	7,300	1,551
1970-71 ...	333	216	117	9,646	7,948	1,698
1971-72 ...	331	219	112	9,828	8,113	1,715
1972-73 ...	341	222	119	9,984	8,187	1,797
1973-74 ...	345	225	120	9,728	7,780	1,948
1974-75 ...	345	225	120	9,643	7,711	1,932
1975-76 ...	344	225	119	9,841	7,860	1,981
1976-77 ...	353	227	126	10,021	7,914	2,107
1977-78 ...	356	228	128	9,972	7,891	2,081
1978-79 ...	365	229	136	9,815	7,930	1,885
1979-80 ...	369	229	140	10,350	8,291	2,059

School year	Enrollment or membership 1/			High school graduates		
	Total	Public 2/	Private 3/	Total	Public	Private
1969-70 ...	211,215	178,564	32,651	12,586	10,377	2,209
1970-71 ...	213,165	180,770	32,395	12,649	10,471	2,178
1971-72 ...	215,524	182,957	32,567	13,304	11,185	2,119
1972-73 ...	214,360	181,587	32,773	13,321	11,147	2,174
1973-74 ...	212,012	178,307	33,705	13,612	11,464	2,148
1974-75 ...	211,702	176,844	34,858	13,545	11,283	2,262
1975-76 ...	212,171	176,232	35,939	13,275	11,080	2,195
1976-77 ...	210,736	174,838	35,898	13,823	11,637	2,186
1977-78 ...	208,830	172,649	36,181	13,867	11,464	2,403
1978-79 ...	206,812	170,515	36,297	14,097	11,637	2,460
1979-80 ...	205,580	168,393	37,187	(NA)	(NA)	(NA)

NA Not available.
1/ December data through 1970-1971 and September data thereafter.
2/ Includes special schools but excludes pre-kindergarten.
3/ Includes special schools and pre-kindergarten.
Source: Hawaii State Department of Education, records.

Table 53.-- SCHOOLS, TEACHERS, AND PUPIL MEMBERSHIP, SEPTEMBER 1979, AND HIGH SCHOOL GRADUATES, 1978-1979, FOR PUBLIC AND PRIVATE SYSTEMS, BY ISLANDS

Island	Number of schools, September 1979			Number of teachers, September 1979		
	Total	Public	Private	Total	Public	Private
State total	369	229	140	10,350	8,291	2,059
Hawaii	39	29	10	1,032	908	124
Maui	30	19	11	647	547	100
Lanai	1	1	-	33	33	-
Molokai	6	5	1	97	95	2
Oahu	258	156	102	8,073	6,285	1,788
Kauai	20	13	7	465	420	45
Niihau	1	1	-	3	3	-
Special schools 3/ ..	14	5	9	(NA)	(4/)	(NA)

Island	Pupil membership, September 1979			High school graduates, 1978-1979		
	Total	Public 1/	Private 2/	Total	Public	Private
State total	205,580	168,393	37,187	14,097	11,637	2,460
Hawaii	20,066	18,331	1,735	1,321	1,193	128
Maui	13,238	11,147	2,091	937	794	143
Lanai	504	504	-	52	52	-
Molokai	1,576	1,548	28	111	111	-
Oahu	160,892	128,800	32,092	11,004	8,822	2,182
Kauai	8,568	7,644	924	595	595	-
Niihau	51	51	-	-	-	-
Special schools 3/ ..	685	368	317	77	70	7

NA Not available.
1/ Excludes pre-kindergarten.
2/ Includes pre-kindergarten.
3/ All of the special schools are located on Oahu.
4/ Number of special public school teachers is included in the Oahu figure.

Source: Hawaii State Department of Education, records.

Table 54.-- PUPIL MEMBERSHIP, PUBLIC AND PRIVATE, BY GRADE: SEPTEMBER 13, 1979

Grades	All schools	Public schools	Private schools
All grades	205,847	168,660	37,187
Nursery	2,975	267	2,708
Kindergarten	14,258	11,640	2,618
1	14,516	11,956	2,560
2	14,633	12,175	2,458
3	15,040	12,611	2,429
4	15,410	12,873	2,537
5	14,554	12,101	2,453
6	13,742	11,329	2,413
7	14,024	11,018	3,006
8	14,422	11,560	2,862
9	15,971	13,087	2,884
10	16,689	13,932	2,757
11	15,832	13,113	2,719
12	14,512	11,972	2,540
Specials	9,269	9,026	243

Source: Hawaii State Department of Education, records.

Table 55.-- EXPENDITURES, AVERAGE SALARIES, AND DAYS OF SCHOOL, FOR PUBLIC ELEMENTARY AND SECONDARY EDUCATION: 1969-1970 TO 1979-1980

Fiscal year	Expenditures (dollars)		Cost per pupil 1/ (dollars)	Average annual salary of teachers (dollars)	Number of days of school
	Current operations	Capital outlay			
1969-1970 ..	146,753,192	37,564,333	818.19	9,591	179
1970-1971 ..	179,070,294	34,539,101	988.54	10,424	177 1/2
1971-1972 ..	183,830,422	35,269,593	1,007.10	10,459	178 1/2
1972-1973 ..	184,118,840	31,618,093	1,014.02	10,883	174
1973-1974 ..	221,923,654	33,618,196	1,257.40	11,968	176
1974-1975 ..	232,185,601	24,832,512	1,305.00	13,949	178
1975-1976 ..	268,155,310	31,983,000	1,503.39	15,111	178
1976-1977 ..	298,770,753	38,105,500	1,718.34	16,689	175
1977-1978 ..	322,185,202	23,196,000	1,883.79	17,579	175
1978-1979 ..	333,768,126	20,809,000	1,981.35	18,360	173
1979-1980 ..	(NA)	(NA)	(NA)	19,858	(NA)

NA Not available.
1/ Based on average daily membership.
Source: Hawaii State Department of Education, records.

Table 56.-- FEDERALLY-CONNECTED PUPILS IN PUBLIC SCHOOLS: FALL, 1970 TO 1979

Year	All federally-connected pupils		Military dependents	Others
	Number	Percent of total enrollment		
1970	51,435	28.5	27,763	23,672
1971	51,143	28.0	27,962	23,181
1972	47,928	26.4	26,450	21,478
1973	45,144	25.3	25,038	20,106
1974	43,848	24.8	24,066	19,782
1975	45,746	26.0	22,246	23,500
1976	44,393	25.4	21,692	22,701
1977	43,648	25.3	21,167	22,481
1978	43,460	25.5	21,423	22,037
1979 1/	45,798	27.2	20,450	25,348

1/ Preliminary.

Source: Hawaii State Department of Education, Report on Federally Connected Pupils, Hawaii Public Schools (annual), and records.

Table 57.--- ENROLLMENT AT THE UNIVERSITY OF HAWAII, BY CAMPUS: FALL 1970 TO 1979

[Fall enrollment in regular credit programs, including concurrent registrants and early admits.]

Year (Fall)	Total, all campuses	University of Hawaii at Manoa				Univ. of Hawaii at Hilo 1/	West Oahu College 2/
		Total	Undergraduates	Graduates	Other 4/		
1970 ..	33,127	21,090	15,810	3,441	1,839	1,741	-
1971 ..	36,368	22,061	16,589	3,913	1,559	2,265	-
1972 ..	38,899	22,371	17,161	4,069	1,141	2,594	-
1973 ..	39,858	22,272	16,905	4,110	1,257	2,784	-
1974 ..	40,719	21,526	16,215	4,059	1,252	3,031	-
1975 ..	44,050	21,260	15,671	4,111	1,478	3,526	-
1976 ..	44,326	21,356	15,370	4,284	1,702	3,322	139
1977 ..	43,888	21,106	15,208	4,280	1,618	3,280	201
1978 ..	43,803	21,225	15,148	4,350	1,727	3,053	234
1979 ..	43,375	20,833	14,902	4,251	1,680	3,099	258

Year (Fall)	Community colleges 3/						
	Total	Honolulu	Kapiolani	Leeward	Windward 5/	Kauai	Maui
1970 ..	10,296	1,937	2,205	4,469	-	627	1,058
1971 ..	12,042	2,167	2,765	5,177	-	839	1,094
1972 ..	13,934	2,561	3,092	5,373	538	1,023	1,347
1973 ..	14,802	2,774	3,559	5,376	829	1,004	1,260
1974 ..	16,162	3,306	3,654	5,816	1,046	1,031	1,309
1975 ..	19,264	4,017	4,368	6,900	1,153	1,238	1,588
1976 ..	19,509	4,450	4,617	6,450	1,154	1,186	1,652
1977 ..	19,301	4,402	4,494	6,159	1,353	1,245	1,648
1978 ..	19,291	4,386	4,738	5,893	1,415	1,137	1,722
1979 ..	19,185	4,576	4,641	5,540	1,505	1,104	1,819

Footnotes and source follow next table.

Table 58.-- DEGREES, DIPLOMAS, AND CERTIFICATES CONFERRED BY THE UNIVERSITY OF HAWAII: 1970 TO 1979

Year ended June 30	University of Hawaii at Manoa					
	Associate	Bachelor	Master	Doctor	First professional 6/	Other 7/
1970	60	2,329	1,018	53	-	290
1971	41	2,644	1,103	78	-	420
1972	49	2,907	1,167	80	-	404
1973	65	3,050	1,272	98	-	370
1974	85	3,260	1,165	109	-	281
1975	57	3,176	1,110	94	62	213
1976	68	3,070	1,132	116	102	183
1977	58	3,076	1,019	135	113	164
1978	61	3,077	1,007	129	125	157
1979	69	2,785	1,063	122	122	134

Year ended June 30	University of Hawaii at Hilo 1/			West Oahu College: bachelor 2/	Community colleges 3/	
	Certificates	Associate degrees	Bachelor degrees		Certificates 8/	Associate degrees
1970	-	-	-	-	378	585
1971	151	45	37	-	424	768
1972	136	99	69	-	347	960
1973	121	124	155	-	439	1,062
1974	83	139	146	-	329	1,179
1975	81	179	189	-	352	1,402
1976	83	230	162	-	414	1,559
1977	93	255	196	6	420	1,598
1978	69	280	206	12	456	1,864
1979	92	255	166	34	509	1,964

1/ Includes Hilo College, College of Agriculture, and Hawaii Community College.

2/ Opened Spring 1976.

3/ Excludes Hawaii Community College, part of the University of Hawaii at Hilo.

4/ Includes unclassified, special and no data on student level.

5/ Opened for instruction in 1972.

6/ Includes Doctor of Jurisprudence (J.D.) and Doctor of Medicine (M.D.).

7/ Certificates in Dental Hygiene and professional diplomas.

8/ Includes certificates of achievement.

Source: University of Hawaii, Office of Institutional Research & Analysis, data provided January 11, 1980.

Table 59.-- FALL ENROLLMENT AND EARNED DEGREES CONFERRED, FOR PRIVATE COLLEGES AND UNIVERSITIES: 1978 AND 1979

School year and institution	Fall enrollment in regular credit programs			Earned degrees conferred during year ended June 30			
	Total	Under-graduate	Graduate	Associate	Bachelor's	Master's	Others
1978							
All private institutions 1/ ...	5,933	5,785	148	83	635	45	-
Brigham Young Univ.-Hawaii Campus ..	1,775	1,751	24	4	104	-	-
Chaminade Univ. of Honolulu	2,299	2,175	124	43	458	45	-
Hawaii Loa College	290	290	-	-	28	-	-
Hawaii Pacific College 1/	1,569	1,569	-	36	45	-	-
1979							
All private institutions	6,133	6,008	125	117	549	50	-
Brigham Young Univ.-Hawaii Campus ..	1,790	1,790	-	13	118	-	-
Chaminade Univ. of Honolulu	2,361	2,236	125	66	363	50	-
Hawaii Loa College	310	310	-	-	20	-	-
Hawaii Pacific College	1,672	1,672	-	38	48	-	-

1/ Data for earned degrees conferred by Hawaii Pacific College are revisions. Previously published 1977 data for Associate degrees have also been revised, as follows: all private institutions, 73; Hawaii Pacific College, 23.

Source: Data compiled by Hawaii State Department of Planning and Economic Development from school officials.

Table 60.-- YEARS OF SCHOOL COMPLETED BY PERSONS 25 YEARS OLD AND OVER, BY AGE: 1979

(Excludes persons in institutions or military barracks or on Niihau or in Kalawao. Based on a sample of 8,138 persons 25 years old and over.)

Years of school completed	Age			
	25 years and over	25 to 44 years	45 to 64 years	65 years and over
All levels	493,185	250,101	173,586	69,498
None	5,465	425	1,232	3,808
1 to 4 years	14,873	1,044	4,476	9,352
5 to 8 years	51,163	6,079	24,004	21,080
9 to 11 years	43,963	14,920	22,961	6,082
12 years	171,764	90,723	68,982	12,059
Vocational	17,862	9,425	7,165	1,272
13 to 15 years	71,561	51,785	15,453	4,323
16 years	58,394	41,932	14,089	2,373
17 years or more	43,718	29,543	10,507	3,668
Not reported	14,422	4,225	4,718	5,479
Median (years) 1/ ...	12.7	13.3	12.4	8.4

1/ Excludes vocational and not reported.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 61.-- HAWAII STATE LIBRARY SYSTEM CHARACTERISTICS: 1979

District	Library locations, June 30	Personnel, June 30 1/		Collections, June 30			Circulation, year ended June 30
		Librarians	All others	Books	Audio-visual microforms	Other print	
Total system	46	117	312.80	1,924,572	476,235	752,643	5,008,477
Oahu	22	75	161.50	1,338,437	433,602	549,399	3,539,864
Hawaii State Library	1	24	45.00	366,186	359,248	338,356	505,115
Library for the Handicapped	1	2	7.00	42,151	13,780	3,623	48,465
East Oahu Library District	12	31	67.50	614,980	32,676	169,799	2,089,872
West Oahu Library District	7	18	42.00	315,120	27,898	37,621	896,412
Other islands	24	29	97.80	586,135	42,633	203,244	1,468,613
Hawaii Library District ...	13	13	46.30	253,524	17,765	56,155	698,671
Kauai Library District	5	5	25.00	158,061	11,243	105,999	409,591
Maui Library District	7	11	26.50	174,550	13,625	41,090	360,351
Administration	...	13	53.50	...	...	...	...

1/ Full-time equivalent basis. Data are limited to regular, general funded positions, and exclude student help.

Source: Office of the State Librarian, records.

Table 62.-- UNIVERSITY OF HAWAII LIBRARY SYSTEM HOLDINGS AND CIRCULATION, BY CAMPUS: 1979

Campus	Number of volumes, June 30	Circulation, year ended June 30
All campuses	2,004,995	648,877
University of Hawaii at Manoa	1,663,639	432,540
West Oahu College	8,548	2,570
University of Hawaii at Hilo 1/	133,081	33,419
Community colleges, total 1/	199,727	180,348
Honolulu	32,023	44,428
Kapiolani	29,813	10,076
Leeward	56,393	57,584
Windward	22,108	13,193
Kauai	26,758	19,637
Maui	32,632	35,430

1/ Hawaii Community College is included with the University of Hawaii at Hilo.

Source: University of Hawaii at Manoa, University Libraries, records.

Table 63.-- READING: 1976

[Based on telephone interviews with 1,000 adults throughout the State, in November and December 1976.]

Subject	Percent
Total	100.0
Times visited library in past 12 months:	
None	38.7
1 to 11 times	32.5
12 or more times	27.6
Don't know	1.2
Number of books read or referred to during past month:	
None	39.4
One	10.9
Two	11.5
Three	8.2
Four or more	29.3
Number of magazines read on a regular basis:	
None	16.8
One	10.7
Two	20.1
Three	19.8
Four or more	31.5
Don't know, refused	1.1

Source: Survey and Marketing Services, Inc., Analysis of Service and Development of Performance Measurements for State of Hawaii Libraries, Vol. II, A Survey of Residents in Relation to Public Library Use (Hawaii State Department of Education, Office of Library Services, February 1978), pp. 10, 15, and 16.

Section 4

LAW ENFORCEMENT, COURTS, AND CORRECTIONS

Statistics in this section refer to crime and delinquency, the police, the judiciary system, prisons, and youth correctional facilities.

Major offenses reported to the police in 1979 numbered 66,000, or almost twice as many as in 1969. The rate per 1,000 population has increased from 48 in 1969 to 72 in 1979. Eighty percent of the 1979 total occurred on Oahu. For the State as a whole, major offenses known to police in 1979 included 66 murders or cases of non-negligent manslaughter, 296 rapes, 1,688 robberies, 597 aggravated assaults, 16,522 burglaries, 40,534 cases of larceny, and 6,542 auto thefts. Organized crime accounted for 55 murders in a ten-year period. The value of property reported stolen in 1979 amounted to $25 million, exclusive of motor vehicles; only 10.6 percent was recovered. In 1977, when asked "Have you or your immediate family been a victim of crime (burglary, assault, etc.) in Hawaii since 1970?," forty percent of all Oahu adults and a fourth of all Neighbor Island adults answered affirmatively. Twenty percent of the major offenses known to police were cleared by arrest or otherwise in 1979. Fifty percent of the persons arrested for major crimes and 35 percent of those arrested for lesser offenses in 1979 were less than eighteen years of age. Inmates of the ten State correctional institutions averaged 698 during 1979; of this number, 412 were adults serving time for felonies. Cases filed in the State Supreme Court, four circuit courts, and four district courts and their divisions during fiscal 1979 numbered 819,000, including 733,000 traffic cases. Filings in the United States District Court for Hawaii included 577 civil cases, 1,699 criminal cases, and 582 bankruptcy cases. The last legal execution in Hawaii took place in 1944. Governmental expenditures on the criminal justice system in 1977 amounted to $89 million, more than half of the total going for police protection.

Statistics on law enforcement, courts, and corrections in Hawaii appear in the annual reports of the county police departments, the State Judiciary, the Department of Social Services and Housing, and the Administrative Office of the United States Courts. The Hawaii Criminal Justice Statistical Analysis Center issues quarterly and annual reports titled Crime in Hawaii. Figures on crime, the courts, and corrections in earlier years appear in Historical Statistics of Hawaii, Section 10. National data are summarized in the Statistical Abstract of the United States: 1979, Section 6.

Table 64.-- CRIMINAL JUSTICE SYSTEM EXPENDITURE AND EMPLOYMENT: 1977

Subject	Total expenditure ($1,000)	Employment, October		Payroll, October ($1,000)
		Total	Full-time equiv.	
Total	88,908	4,269	4,213	5,631
By level of government:				
State	37,901	1,575	1,553	1,940
City and County of Honolulu	37,654	1,971	1,971	2,717
Other counties	14,785	723	689	974
By activity:				
Police protection	47,542	2,556	2,537	3,486
Judicial	13,285	673	658	843
Legal services and prosecution	5,956	270	270	425
Public defense	1,890	57	57	73
Corrections	16,446	657	650	751
Other criminal justice	3,789	56	41	55

Source: U.S. Department of Justice and U.S. Bureau of the Census, *Expenditure and Employment Data for the Criminal Justice System: 1977* (May 1979), pages 42-43, 62-63, and 70-71.

Table 65.-- ACTUAL MAJOR (PART I) OFFENSES KNOWN TO THE POLICE, BY COUNTY: 1969 TO 1979

Year	State total		City and County of Honolulu	Hawaii County	Kauai County	Maui County
	Number	Rate 1/				
1969	36,109	4,813	32,636	1,406	779	1,288
1970	41,201	5,322	36,779	1,626	993	1,803
1971	42,952	5,382	37,459	1,867	1,326	2,300
1972	37,091	4,518	31,594	2,047	1,195	2,255
1973	41,850	4,958	35,275	2,612	1,596	2,367
1974	51,451	6,024	43,572	3,031	1,732	3,116
1975	51,777	5,966	43,612	3,192	1,777	3,196
1976	55,603	6,301	45,307	3,918	2,172	4,206
1977	57,977	6,494	46,389	4,178	2,127	5,283
1978	63,315	7,016	51,273	4,439	2,406	5,197
1979	66,245	7,242	52,926	4,619	2,472	6,228

1/ Annual rate per 100,000 resident population (including armed forces), July 1.

Source: County police departments, annual reports and records; Hawaii Criminal Justice Statistical Analysis Center, records.

Table 66.-- ACTUAL OFFENSES KNOWN TO POLICE AND OFFENSES CLEARED BY ARREST OR OTHERWISE, BY CLASS OF OFFENSE, BY COUNTIES: 1979

County	Actual offenses known to police		Number cleared by arrest or otherwise		Percent cleared	
	Part I	Part II 1/	Part I	Part II 1/	Part I	Part II 1/
State total .	66,245	88,792	13,414	56,526	20.2	63.7
Honolulu	52,926	71,136	10,318	47,259	19.5	66.4
Hawaii	4,619	4,045	1,466	2,331	31.7	57.6
Kauai	2,472	2,668	418	1,224	16.9	45.9
Maui	6,228	10,943	1,212	5,712	19.5	52.2

1/ Excludes traffic offenses.

Source: Hawaii Criminal Justice Statistical Analysis Center, special tabulation.

Table 67.-- ACTUAL MAJOR OFFENSES KNOWN TO POLICE, FOR THE CITY AND COUNTY OF HONOLULU: 1969 TO 1979

Calendar year	Total Part I offenses	Murder; non-negligent manslaughter	Slaughter (negligent)	Rape	Robbery
1969	32,636	23	22	82	272
1970	36,779	25	3	85	473
1971	37,459	31	46	124	715
1972	31,594	46	31	144	424
1973	35,275	36	50	150	663
1974	43,572	62	84	190	951
1975	43,612	58	99	161	1,037
1976	45,307	40	111	150	1,084
1977	46,389	45	94	177	1,086
1978	51,273	35	114	181	1,478
1979	52,310	49	120	225	1,555

Calendar year	Aggravated assault	Burglary	Larceny		Auto theft
			Total	Over $50	
1969	124	9,417	18,576	(NA)	4,120
1970	219	10,252	21,481	(NA)	4,241
1971	341	9,599	22,349	9,426	4,254
1972	343	8,943	18,706	7,829	2,957
1973	287	10,838	19,763	8,440	3,488
1974	301	13,040	24,269	10,183	4,675
1975	311	13,287	24,480	10,757	4,179
1976	356	13,509	25,793	11,977	4,264
1977	335	13,134	27,732	13,977	3,786
1978	303	13,712	31,037	16,610	4,413
1979	349	12,664	31,616	17,539	5,732

NA Not available.

Source: Honolulu Police Department, Statistical Report (annual).

Table 68.-- ACTUAL PART I OFFENSES KNOWN TO POLICE AND PART I OFFENSES CLEARED BY ARREST OR OTHERWISE, FOR THE STATE AND OAHU: 1979

Type of offense	Actual offenses known to police		Number cleared by arrest or otherwise		Percent cleared	
	State total	Oahu only	State total	Oahu only	State total	Oahu only
All Part I offenses	66,245	52,926	13,414	10,318	20.2	19.5
Murder & non-neg. manslaughter	66	48	48	38	72.7	79.2
Manslaughter (neg.) ...	-	-	-	-	-	-
Rape	296	223	129	87	43.6	39.0
Robbery	1,688	1,568	519	478	30.7	30.5
Aggravated assault	597	357	314	183	52.6	51.3
Burglary	16,522	12,803	3,296	2,359	19.9	18.4
Larceny over $200	11,472	9,057	8,243	6,555	20.3	20.4
Larceny, $50-$200	11,356	8,803				
Larceny, under $50	17,706	14,306				
Auto theft	6,542	5,761	865	618	13.2	10.7

Source: Hawaii Criminal Justice Statistical Analysis Center, special tabulation.

Table 69.-- PART I OFFENSES CLEARED BY ARREST OR OTHERWISE AND AGE OF PERSONS ARRESTED FOR PART I OFFENSES, FOR THE CITY AND COUNTY OF HONOLULU: 1969 TO 1979

Year	Part I offenses cleared 1/		Persons arrested for Part I offenses			
	Number	Percent	Total	Juveniles under 18 years		18 years of age and over
				Male	Female	
1969 ..	6,393	20	6,217	3,340	1,030	1,847
1970 ..	6,437	18	6,405	2,899	995	2,511
1971 ..	8,325	22	6,730	2,770	979	2,981
1972 ..	10,028	32	5,954	2,406	1,035	2,513
1973 ..	8,721	25	6,558	2,623	1,005	2,930
1974 ..	9,727	22	8,043	3,227	1,027	3,789
1975 ..	9,235	21	7,696	3,186	1,134	3,376
1976 ..	12,747	28	8,915	3,647	1,316	3,952
1977 ..	11,460	25	8,429	3,355	1,117	3,957
1978 ..	11,955	23	8,234	3,222	1,064	3,948
1979 ..	10,844	21	8,125	3,051	1,079	3,995

1/ Major (Part I) offenses cleared by arrest or otherwise, including prior years offenses.

Source: Honolulu Police Department, Statistical Report (annual).

Table 70.-- PERSONS ARRESTED FOR PART I AND PART II OFFENSES, BY AGE AND SEX, FOR THE STATE AND OAHU: 1979

Age and sex	Arrested for Part I offenses		Arrested for Part II offenses (except traffic)	
	State total	Oahu only	State total	Oahu only
Total	10,134	8,255	27,057	17,747
Juveniles	5,110	4,153	9,497	3,326
Male	3,848	3,075	6,818	2,225
Female	1,262	1,078	2,679	1,101
Adults	5,024	4,102	17,560	14,421
Male	3,706	2,982	14,862	12,154
Female	1,318	1,120	2,698	2,267

Source: Hawaii Criminal Justice Statistical Analysis Center, special tabulation.

Table 71.-- VICTIMS OF CRIME: 1970 TO 1977

(Response to questions, "Have you or your immediate family been a victim of crime (burglary, assault, etc.) in Hawaii since 1970?," asked of 2,749 persons 15 years old and over, December 3-7, 1977.)

Place of residence	Sample size	Percent distribution		
		Victims	Not victims	No reply
State total	2,749	36.0	61.2	2.8
Hawaii County	536	22.0	75.9	2.1
Maui County	671	25.8	71.1	3.1
Oahu	986	40.0	57.3	2.7
Kauai	556	23.1	71.6	5.3

Source: Public Affairs Advisory Service, Inc., A Survey of Crime and the Criminal Justice System (Hawaii Commission on Crime, January 1978), pp. 24, 35, 41, 55, 72, 121, and 122.

Table 72.-- VALUE OF PROPERTY REPORTED STOLEN AND VALUE OF STOLEN PROPERTY RECOVERED (EXCLUSIVE OF AUTOMOBILES), FOR THE CITY AND COUNTY OF HONOLULU: 1969 TO 1979

Year	Value of property reported stolen ($1,000)	Value of stolen property recovered ($1,000)	Percent recovered
1969 ...	4,119.3	204.7	5.0
1970 ...	4,913.4	237.5	4.9
1971 ...	5,509.7	335.9	6.1
1972 ...	6,249.2	566.7	9.1
1973 ...	7,660.5	980.0	12.8
1974 ...	9,732.7	558.1	5.7
1975 ...	11,628.1	828.1	7.1
1976 ...	14,438.7	1,375.4	9.5
1977 ...	15,473.3	1,496.2	9.7
1978 ...	20,151.1	1,817.2	9.0
1979 ...	21,639.6	1,861.6	8.6

Source: Statistical Report, Honolulu Police Department (annual).

Table 73.-- VALUE OF PROPERTY REPORTED STOLEN AND VALUE OF STOLEN PROPERTY RECOVERED, BY CATEGORY, FOR THE STATE AND OAHU: 1979

Type of stolen property	Value of property stolen ($1,000)	Value of stolen property recovered	
		Amount ($1,000)	Percent
All property stolen:			
State total	39,372.5	12,638.5	32.1
Oahu only	33,129.9	10,245.2	30.9
Locally stolen motor vehicles:			
State total	14,469.1	999.0	69.1
Oahu only	12,191.2	8,038.9	65.9
Other stolen property:			
State total	24,903.4	2,639.5	10.6
Oahu only	20,938.7	2,206.3	10.5

Source: Hawaii Criminal Justice Statistical Analysis Center, special tabulation.

Table 74.-- DISPOSITION OF ADULTS AND JUVENILES ARRESTED FOR PART I AND PART II OFFENSES, FOR THE CITY AND COUNTY OF HONOLULU: 1979

(Approximate data.)

Age group and disposition	Part I offenses	Part II offenses
ADULTS		
Persons arrested	3,995	14,602
Released	1,060	856
Charged	2,935	13,746
Guilty as charged	927	6,856
Guilty of a lesser offense	9	6
Disposed of otherwise	1,657	3,519
Dispositions by district and circuit courts	2,533	10,215
Convicted	932	6,854
Fine	506	5,669
Jail	152	244
Probation, suspended sentence	272	881
Other convictions	2	60
Bail forfeitures	162	881
Discharged	1,301	2,009
Stricken N/P	138	471
JUVENILES		
Arrests	4,130	3,365
Released without charges	942	234
Counseled and released	1,736	698
Social agencies	-	37
Family Court	1,388	2,380
Family Court referrals	1,386	2,376
Counseled and released	155	350
Youth Correctional Facility	-	-
Social agencies	-	2
All others	723	1,399

Source: Honolulu Police Department, *Annual Statistical Report 1979* (July 1980), pp. 46-47 and 54-55.

Table 75.-- PAKALŌLŌ (MARIJUANA) CONFISCATED BY AUTHORITIES, BY COUNTIES: 1979

County	Weight (tons)	Estimated value 1/ ($1,000)
State total	67.3	26,934
City and County of Honolulu ...	17.0	6,804
Hawaii County	38.0	15,200
Kauai County	8.3	3,317
Maui County	4.0	1,612

1/ Value is estimated at $200 per pound ("wet", unprocessed weight). The different police departments varied somewhat in their individual estimates of value.

Source: County police departments, records.

Table 76.-- UNITED STATES DISTRICT COURT CASES: 1977 TO 1979

(Years ended June 30)

Subject	1977	1978	1979
Civil cases:			
Filings	462	535	577
Terminations	341	402	429
Pending, end of period	743	876	1,024
Criminal cases: 1/			
Filings (including transfers) .	1,035	1,120	1,699
Terminations	823	1,151	1,307
Pending, end of period	313	282	674
Bankruptcy:			
Commenced, total	564	547	582
Voluntary: Business 2/	110	125	116
Nonbusiness	452	420	463
Involuntary	2	2	3
Terminated	356	601	438
Pending, end of period	594	540	684

1/ Data include drunk driving and traffic violations reported pursuant to Speedy Trial Act of 1974.

2/ Farmer, professional, merchant, manufacturer, and others in business. Excludes employee and other nonbusiness bankruptcies.

Source: Administrative Office of the United States Courts, Annual Report of the Director for 1978 and 1979.

Table 77.-- STATE JUDICIARY TERMINATIONS: 1958 TO 1979

Court and type of case	1958	1959	1960	1961	1962	1963
All courts, total ..	161,347	145,608	163,993	216,449	210,477	289,183
Supreme Court 3/	50	174	161	146	180	192
Civil cases	...	...	...	...	...	33
Criminal cases	...	...	...	...	...	11
Other proceedings	...	...	...	...	...	148
Circuit Courts proper ...	9,001	11,245	3,943	3,748	4,182	4,521
Civil cases	...	...	1,173	1,083	1,219	1,412
Criminal cases	...	...	1,016	849	774	862
Felonies 4/	...	...	...	...	...	...
Misdemeanors 5/	...	...	...	...	...	...
Other proceedings	...	...	1,754	1,816	2,189	2,247
Family Courts	(6/)	(6/)	9,153	10,064	10,828	10,504
Civil cases	...	...	1,551	1,846	1,591	1,892
Criminal cases	...	...	-	-	-	-
Other proceedings	...	...	7,602	8,218	9,237	8,612
District Courts 7/	152,296	134,189	150,736	202,491	195,287	273,966
Civil cases	...	...	...	...	...	...
Traffic cases	...	...	...	...	...	...
Other violations	...	...	...	...	...	...
Criminal cases	...	...	...	...	...	...
Part I	...	...	...	...	...	...
Part II	...	...	...	...	...	...

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Table 77.-- STATE JUDICIARY TERMINATIONS: 1958 TO 1979 -- Con.

Court and type of case	1964	1965	1966	1967 1/	1968 2/	1969 2/
All courts, total ..	297,608	309,514	332,837	186,564	354,372	354,691
Supreme Court	231	271	293	426	466	300
Civil cases	59	39	47	48	82	59
Criminal cases	8	12	1	20	24	18
Other proceedings	164	220	245	358	360	223
Circuit Courts proper ...	4,892	5,121	5,899	3,111	5,979	5,742
Civil cases	1,448	1,875	1,936	1,145	2,001	2,677
Criminal cases	1,093	993	1,564	661	1,671	1,130
Felonies 4/	471	438	513	162	585	668
Misdemeanors 5/	622	555	1,051	499	1,086	462
Other proceedings	2,351	2,253	2,399	1,305	2,307	1,935
Family Courts	11,772	13,556	13,391	8,202	17,503	17,613
Civil cases	3,121	2,900	2,699	1,447	3,156	2,701
Criminal cases	-	-	-	24	18	16
Other proceedings	8,651	10,656	10,692	6,731	14,329	14,896
District Courts	280,713	290,566	313,254	174,825	330,424	331,036
Civil cases	...	18,569	19,040	9,747	18,965	...
Traffic cases	...	...	...	...	...	...
Other violations	...	...	...	...	...	...
Criminal cases	...	...	...	...	...	...
Part I	...	...	...	...	...	...
Part II	...	...	...	...	...	...

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Table 77.-- STATE JUDICIARY TERMINATIONS: 1958 TO 1979 -- Con.

Court and type of case	1970 2/	1971 2/	1972 2/	1973 2/	1974 2/	1975 2/
All courts, total ..	425,009	484,860	547,590	567,514	592,973	604,176
Supreme Court	324	375	315	347	383	405
Civil cases	76	91	72	91	88	69
Criminal cases	19	21	32	39	46	65
Other proceedings	229	263	211	217	249	271
Circuit Courts proper ...	8,045	9,211	8,553	9,323	7,686	9,334
Civil cases	3,035	3,312	3,229	3,029	2,575	3,870
Criminal cases	2,423	1,680	2,081	2,318	1,827	2,097
Felonies 4/	932	1,177	757	879	741	885
Misdemeanors 5/	1,491	503	1,324	1,439	1,086	1,212
Other proceedings	2,587	4,219	3,243	3,976	3,284	3,367
Family Courts	19,213	21,137	17,215	17,716	16,310	17,015
Civil cases	3,277	6,913	5,787	6,476	7,074	6,624
Criminal cases	23	25	12	19	21	31
Other proceedings	15,913	14,199	11,416	11,221	9,215	10,360
District Courts	397,427	454,137	521,507	540,128	568,594	577,422
Civil cases	...	...	14,143	13,888	12,831	12,232
Traffic cases	...	...	480,286	499,389	520,964	524,345
Other violations	...	...	13,952	14,796	17,667	20,733
Criminal cases	...	...	13,126	12,055	17,132	20,112
Part I	...	...	2,576	2,246	3,005	3,781
Part II	...	...	10,550	9,809	14,127	16,331

Continued on next page.

Table 77.-- STATE JUDICIARY TERMINATIONS: 1958 TO 1979 -- Con.

Court and type of case	1976 2/	1977 2/	1978 2/	1979 2/
All courts, total ..	623,453	685,282	719,773	818,750
Supreme Court	520	563	729	876
Civil cases	97	97	95	111
Criminal cases	50	41	68	149
Other proceedings	373	425	566	616
Circuit Courts proper ...	8,094	8,626	9,151	8,744
Civil cases	3,462	3,732	4,073	3,367
Criminal cases	1,638	1,532	1,716	1,962
Part I offenses	654	766	764	837
Part II offenses	984	766	952	1,125
Other proceedings	2,994	3,362	3,362	3,415
Family Courts	17,256	19,010	20,194	20,952
Civil cases	7,396	8,538	9,314	10,277
Criminal cases	45	24	50	40
Other proceedings	9,815	10,448	10,830	10,635
District Courts	597,583	657,083	689,699	788,178
Civil cases	10,953	10,330	10,200	11,382
Traffic cases	545,340	609,323	640,468	733,196
Other violations	24,881	18,926	18,888	22,096
Criminal cases	16,409	18,504	20,143	21,504
Part I offenses	2,515	3,254	3,368	3,651
Part II offenses	13,894	15,250	16,775	17,853
Other proceedings	-	-	-	-

1/ Data for Circuit, Family, and District Courts refer to January 1-June 30, 1967.

2/ Year ended June 30.

3/ Data for 1960 exclude naturalization cases.

4/ Felonies through 1971; Part I offenses, 1972 forward.

5/ Misdemeanors through 1971; Part II offenses, 1972 forward.

6/ Included with Circuit Courts proper.

7/ Data for 1960 limited to District Courts of the First Circuit.

Source: Hawaii State Judiciary, Office of the Administrative Director of the Courts, records, as revised April 30, 1980.

Table 78.-- STATE JUDICIARY CASES FILED, BY TYPE OF ACTION: 1979

(Year ended June 30)

Court and type of action	Number
Supreme Court, total	963
Primary cases	338
Appeals	303
Original proceedings	35
Supplemental proceedings	625
Circuit Court Proper, total	11,291
Primary proceedings	10,203
Civil actions	4,479
Probate proceedings	1,476
Guardianship proceedings	341
Miscellaneous proceedings	1,098
Criminal actions	2,809
Part I offenses	1,122
Part II offenses	1,687
Supplemental proceedings	1,088
Family Courts, total	22,854
Primary proceedings, referrals	19,536
Marital actions, proceedings	7,987
Adoption proceedings	840
Paternity proceedings	981
Miscellaneous proceedings	1,418
Criminal actions	70
Adults' referrals	796
Children and minors' referrals	7,444
Supplemental proceedings	3,318
District Court, total	801,806
Civil	12,369
Regular	10,999
Small claims	1,370
Traffic	743,863
Moving - arrest and citation	149,392
Non-moving	75,441
Parking	519,030
Other violations	24,049
Criminal actions	21,525
Part I offenses	3,560
Part II offenses	17,965

Source follows next table.

Table 79.-- STATE JUDICIARY CASE TERMINATIONS, BY TYPE: 1979

(Year ended June 30)

Court and type of termination	Number
Supreme Court, total	876
Opinion filed	197
Dismissal motion granted	8
Withdrawn or discontinued	72
Other disposition	599
Circuit Court Proper, total	8,744
No service	491
No answer	310
No statement of readiness	47
Dismissal: Notice of	690
Stip. for	976
By judge	687
Nonjury: Trial	163
Trial not completed	6
Jury Verdict	257
Trial not completed	16
No trial held	1,000
Hearings: Contested	335
Uncontested	1,585
Others	2,181
Family Courts, total	20,952
Nolle prosequi	20
Dismissal	4
Nonjury: Trial	34
Trial not completed	22
Jury: Verdict	8
Trial not completed	6
No trial held	754
Hearings: Contested	2,537
Uncontested	8,561
Counseling service	3,882
Others	5,124

Continued on next page.

Table 79.-- STATE JUDICIARY CASE TERMINATIONS, BY TYPE: 1979 -- Con.

(Year ended June 30)

Court and type of termination	Number
District Court, total	788,178
Felonies	932
Stricken or discharged	163
By commitment to Grand Jury	518
By commitment to Circuit Court	251
Misdemeanors	20,572
By discharge or dismissal	4,887
By nolle prosequi	1,259
Stricken	1,828
By bail forfeiture	1,821
By commitment to Circuit Court	386
By conviction	10,391
Civil cases	11,382
By discontinuance or dismissal	3,369
By default or confession	7,163
By trial	730
By commitment to Circuit Court	120
Traffic and other violations	755,292
By discharge or dismissal	77,664
By nolle prosequi	13,537
Stricken	90,672
By bail forfeiture	458,113
By commitment to Circuit Court	22
By conviction	115,284

Source: The Judiciary, State of Hawaii, Annual Report, July 1, 1978 to June 30, 1979, pp. 74, 78, 83, and 88.

Table 80.-- INMATES PRESENT IN STATE CORRECTIONAL FACILITIES: ANNUAL AVERAGES, 1969 TO 1979

(For fiscal years ended June 30. Excludes county facilities prior to their transfer to State control. Halawa Jail on Oahu, Hawaii County Jail, and Maui County Jail became State correctional facilities on July 1, 1975; Kauai County Jail became a State facility on June 20, 1977.)

Year	All categories	Adult facilities			Juvenile facilities	
		Felons	Misdemeanants	Not sentenced	Boys	Girls
1969	(NA)	320	(NA)	(NA)	51	21
1970	(NA)	281	(NA)	(NA)	56	11
1971	(NA)	257	(NA)	(NA)	61	12
1972	(NA)	256	(NA)	(NA)	49	9
1973	(NA)	300	(NA)	(NA)	63	19
1974	(NA)	302	(NA)	(NA)	62	17
1975	(NA)	312	(NA)	(NA)	60	16
1976 1/ ..	530	326	47	100	46	11
1977 1/ ..	544	319	39	117	56	13
1978 1/ ..	592	351	48	129	54	10
1979	698	412	48	170	61	7

NA Not available.

1/ Revised from 1979 edition, table 63, because of a decision to count felon probationers serving jail terms under one year as misdemeanants.

Source: Hawaii State Intake Service Center, Office of Correctional Information and Statistics, information submitted June 18, 1980.

Section 5

GEOGRAPHY AND ENVIRONMENT

This section relates to area, climatologic, topographic, hydrologic, noise and other geographic and environmental measurements of Hawaii.

The State consists of eight major islands and 124 minor islands with a total land area of 6,425 square miles and a general coastline of 750 miles. Honolulu is 214 miles from Hilo, 1,367 miles from Kure Atoll (the westernmost end of the State), 2,397 miles from San Francisco, and 4,829 miles from Washington, D.C. The highest peak in the State is Mauna Kea, 13,796 feet above sea level; the longest stream is Kaukonahua Stream, Oahu, 33 miles in length; the biggest lake is Halalii, on Niihau, 841 acres; and the highest named waterfall is Kahiwa, Molokai, a 1,750-foot cascade. Various measures of air pollution, such as suspended particulate matter, indicate that Honolulu is one of the cleanest cities in the nation. There is also relatively little water pollution: sixteen major Oahu beaches surveyed in 1979 were found to have coliform levels per 100 ml. ranging from 3.7 to 94.8, and all were well within EPA standards. More than 1,100 species, subspecies, and varieties of native flora were endangered, threatened, or extinct, according to a 1977 survey. Climatically, Hawaii is marked by remarkably balmy temperatures and wide variations in rainfall. The all-time temperature range at Honolulu International Airport, for example, was from 53° to 92°F. Normal precipitation, however, ranges from 5.7 inches near Kawaihae, South Kohala, to 486 inches atop Waialeale. The longest volcanic eruption in Island history lasted 867 days, the worst earthquake attained 7.5 on the Richter scale, and the highest tsunami wave reached 56 feet. Water withdrawn for use in 1975 averaged 2.5 billion gallons per day, compared with 2.7 billion in 1970 and 2.0 billion in 1965. Among thirty neighborhoods on Oahu, median noise levels in 1974 ranged from 44.7 decibels (in Pearl City) to 61.5 decibels (in Waikiki).

Important sources of data include the U.S. Geological Survey, National Ocean Survey, National Weather Service, U.S. Bureau of the Census Geography Division, the Division of Water and Land Development of the State Department of Land and Natural Resources, the State Department of Health, and the University of Hawaii Institute of Geophysics. Detailed information is given in Atlas of Hawaii, published by the University Press of Hawaii in 1973, and Hawai'i, the Natural Environment, issued by the Department of Planning and Economic Development in 1974. National data are reported in Statistical Abstract of the United States: 1979, Section 7.

Table 81.-- GREAT CIRCLE DISTANCES BETWEEN HONOLULU INTERNATIONAL AIRPORT AND SPECIFIED PLACES

Place	Distance from Honolulu	
	Statute miles	Kilometers
Hawaiian Islands:		
Cape Kumukahi, Hawaii	236	380
Hilo, Hawaii	214	344
Ka Lae (South Cape), Hawaii	221	356
Kailua, Kona, Hawaii	168	270
Kahului, Maui	98	158
Lanai Airport	72	116
Molokai Airport	54	87
Lihue, Kauai	103	166
Puuwai, Niihau	152	245
Nihoa	283	455
Necker Island	520	837
French Frigate Shoals	556	895
Gardner Pinnacles	688	1,107
Maro Reef	851	1,369
Laysan Island	936	1,506
Lisianski Island	1,065	1,714
Pearl and Hermes Atoll	1,208	1,944
Midway Islands	1,309	2,106
Kure Atoll	1,367	2,200
Trust Territory of the Pacific Islands:		
Majuro, Marshall Islands	2,271	3,654
Kwajalein, Marshall Islands	2,443	3,931
Kolonia, Ponape, E.C.I.	3,087	4,967
Saipan, Mariana Islands	3,704	5,960
Koror, Palau, W.C.I.	4,593	7,390
Other Pacific locations:		
Apra Harbor, Guam	3,806	6,124
Auckland, New Zealand	4,393	7,068
Avarua, Rarotonga	2,950	4,750
Funafuti, Tuvalu	2,550	4,106
Hong Kong	5,541	8,915
Johnston Island	820	1,319
Kingman Reef	1,073	1,726
Manila, Philippines	5,293	8,516
Nuku'alofa, Tongatapu	3,165	5,096
Nuku Hiva, Marquesas Islands	2,400	3,864
Pago Pago, American Samoa	2,606	4,193

Continued on next page.

Table 81.-- GREAT CIRCLE DISTANCES BETWEEN HONOLULU INTERNATIONAL AIRPORT AND SPECIFIED PLACES -- Con.

Place	Distance from Honolulu	
	Statute miles	Kilometers
Other Pacific locations, con.:		
Palmyra Island	1,101	1,772
Papeete, Tahiti	2,741	4,410
Suva, Fiji	3,159	5,083
Sydney (Port Jackson), Australia	5,070	8,158
Tokyo, Japan	3,847	6,190
Wake Island	2,294	3,691
North and South America:		
Anchorage, Alaska	2,781	4,475
Cape Horn, Chile	7,457	11,998
Chicago, Illinois	4,179	6,724
Cristobal, Canal Zone	5,214	8,389
Lima, Peru	5,950	9,580
Los Angeles, California	2,557	4,114
Miami, Florida	4,856	7,813
New York, New York	4,959	7,979
Portland, Oregon	2,595	4,175
San Diego, California	2,610	4,199
San Francisco, California	2,397	3,857
Seattle, Washington	2,679	4,311
Vancouver, B.C.	2,709	4,359
Victoria, B.C.	2,668	4,293
Tijuana, Mexico	2,616	4,209
Washington, D.C.	4,829	7,770
London, England	7,226	11,627
Bombay, India	8,010	12,888
Ghanzi, Botswana 1/	12,417	19,979
Equator, due south of Honolulu	1,470	2,367
North Pole	4,740	7,631
South Pole	7,660	12,333

1/ Ghanzi, Botswana, is Honolulu's antipode, that is, the point precisely opposite to it on the globe.

Source follows next table.

Table 82.-- GREAT CIRCLE DISTANCES FROM HILO AND KURE ATOLL

Places	Great circle distance	
	Statute miles	Kilometers
Hilo to --		
Honolulu, Oahu	214	344
Los Angeles, California	2,447	3,937
San Francisco, California	2,315	3,725
Kure Atoll to --		
Cape Kumukahi, Puna, Hawaii 1/	1,523	2,451
Honolulu, Oahu	1,367	2,200
Log Point, Elliot Key, Florida 2/	5,852	9,416
Tokyo, Japan	2,486	4,000
West Quoddy Head, Maine	5,788	9,313

1/ Cape Kumukahi and Kure Atoll are the points farthest apart in the Hawaiian Archipelago and State of Hawaii.

2/ Log Point and Kure Atoll are the points farthest apart in the fifty states.

Source: U. S. Department of the Interior, Geological Survey, Elevations and Distances in the United States (1970), and distance computations prepared for the Department of Planning and Economic Development.

Table 83.-- WIDTHS AND DEPTHS OF CHANNELS

Channel	Location	Width		Maximum depth	
		Statute miles	Kilometers	Feet	Meters
Alenuihaha	Upolu Pt., Hawaii-Pulule Pt., Maui ...	29.5	47.5	6,120	1,870
Alalakeiki	Ule Pt., Kahoolawe-Nukele Pt., Maui ..	6.8	10.9	470	140
Kealaikahiki ..	Kamaiki Pt., Lanai-Ma Kaala, Kahoolawe	17.6	28.3	...	...
Auau	Kikoa Pt., Lanai-Lahaina, Maui	9.1	14.6	108	33
Kalohi	Wahi Pt., Lanai-Kamalo, Molokai	9.3	15.0	260	80
Pailolo	Lipoa Pt., Maui-Pohakuloa, Molokai ...	8.8	14.2	800	240
Kaiwi	Ilio Pt., Molokai-Makapuu Pt., Oahu ..	26.0	41.8	2,000	600
Kauai	Kaena Pt., Oahu-Kamilo Pt., Kauai	72.4	116.5	10,000	3,000
Kaulakahi	Kaunuopou Pt., Niihau-Mana Pt., Kauai	17.0	27.4	2,500	800

Source: Hawaii State Department of Planning and Economic Development, Hawai'i, the Natural Environment (1974), p. 20.

Table 84.-- GENERAL COASTLINE AND TIDAL SHORELINE OF COUNTIES AND ISLANDS

County and island	General coastline 1/		Tidal shoreline 2/	
	Statute miles	Kilometers 3/	Statute miles	Kilometers 3/
State total 4/	750	1,207	1,052	1,693
Counties:				
Hawaii	266	428	313	504
Maui, including Kalawao	210	338	343	552
Honolulu	137	220	234	377
Kauai	137	220	162	261
Islands:				
Hawaii	266	428	313	504
Maui	120	193	149	240
Kahoolawe	29	47	36	58
Molokini	...	...	...	...
Lanai	47	76	52	84
Molokai	88	142	106	171
Oahu	112	180	209	336
Kauai	90	145	110	177
Niihau	45	72	50	80
Lehua	...	...	...	...
Kaula	2	3	2	3
Northwestern Hawaiian Islands 5/	25	40	25	40
Nihoa	3	5	3	5
Necker Island	2	3	2	3
French Frigate Shoals	6	10	6	10
Gardner Pinnacles	...	...	...	...
Maro Reef	...	...	...	...
Laysan Island	6	10	6	10
Lisianski Island	3	5	3	5
Pearl and Hermes Atoll	...	...	...	...
Kure Atoll	5	8	5	8

Footnotes and source on next page.

Table 84.-- GENERAL COASTLINE AND TIDAL SHORELINE OF COUNTIES AND ISLANDS -- Cont.

1/ Figures are lengths of general outline of seacoast. Measurements were made with a unit measure of 30 minutes of latitude on charts as near the scale of 1:1,200,000 as possible. Coastline of bays is included to a point where they narrow to width of unit measure, and includes the distance across at such point. Figures for the islands of Maui County are not consistent with the published county total.

2/ Figures obtained in 1939-1940 with a recording instrument on the largest-scale charts and maps then available. Shoreline of outer coast, offshore islands, bays, rivers, and creeks is included to the head of tidewater or to a point where tidal waters narrow to a width of 100 feet.

3/ Derived from data expressed in statute miles; independently rounded and accordingly may not add exactly to indicated totals and subtotals. 1 mi. = 1.609 km.

4/ Among the States and Territories, Hawaii ranks fourth in general coastline and seventeenth in tidal shoreline.

5/ Excludes the Midway Islands, which are part of the Hawaiian Archipelago but not legally part of the State of Hawaii. Midway has a general coastline of 20 miles and a tidal shoreline of 33 miles.

Source: U.S. Coast and Geodetic Survey, Coastline of the United States (April 1, 1961) and letter dated October 24, 1961.

Table 85.-- LAND AND WATER AREA WITHIN THE FISHERY CONSERVATION ZONE

[Land and water area within the 200 nautical mile Fishery Conservation Zone surrounding the Hawaiian Archipelago.]

Category	Square nautical miles	Square statute miles	Square kilometers
Total	634,023	839,623	2,174,626
Land area	4,852	6,425	16,641
Water area	629,171	833,198	2,157,985

Source: Charles E. Harrington, Chief Geographer, Marine Surveys and Maps, National Ocean Survey, National Oceanic and Atmospheric Administration, U.S. Department of Commerce, information supplied September 15, 1978.

Table 86.-- LAND AND WATER AREA OF COUNTIES AND ISLANDS

County or island	Square miles			Square kilometers 1/		Acres 1/	
	Total area	Land area 2/	Inland water 3/	Total area	Land area 2/	Total area	Land area 2/
State total	6,450.4	6,425.4	25.0	16,706.5	16,641.7	4,128,256	4,112,256
Counties:							
Hawaii	4,038.0	4,037.0	1.0	10,458.4	10,455.8	2,584,320	2,583,680
Maui	1,161.1	1,160.3	0.8	3,007.2	3,005.2	743,104	742,592
Kalawao	13.3	13.3	-	34.4	34.4	8,512	8,512
Honolulu	610.9	595.7	15.2	1,582.2	1,542.9	390,976	381,248
Kauai	627.1	619.1	8.0	1,624.2	1,603.5	401,344	396,224
Islands:							
Hawaii	4,038.0	4,037.0	1.0	10,458.4	10,455.8	2,584,320	2,583,680
Maui	728.8	728.2	0.6	1,887.6	1,886.0	466,432	466,048
Kahoolawe	45.0	45.0	-	116.5	116.5	28,800	28,800
Molokini 4/	0.0	0.0	-	0.1	0.1	19	19
Lanai	139.5	139.5	-	361.3	361.3	89,280	89,280
Molokai	261.1	260.9	0.2	676.2	675.7	167,104	166,976
Oahu	607.7	592.7	15.0	1,573.9	1,535.1	388,928	379,328
Kauai	553.3	548.7	4.6	1,433.0	1,421.1	354,112	351,168
Niihau	73.0	69.6	3.4	189.1	180.3	46,720	44,544
Lehua	0.4	0.4	-	1.0	1.0	243	243
Kaula	0.4	0.4	-	1.1	1.1	280	280
Northwestern Hawaiian Islands 5/	3.2	3.0	0.2	8.2	7.7	2,036	1,895

Footnotes and source on next page.

Table 86.-- LAND AND WATER AREA OF COUNTIES AND ISLANDS -- Cont.

1/ Areas in square kilometers and acres were calculated directly from the figures shown for square miles (except for Molokini, Lehua, Kaula, and the Northwestern Hawaiian Islands, for which square miles calculated to three decimal places were used); these equivalents were independently rounded, and hence may not add exactly to the indicated totals and subtotals. 1 sq. mi. = 640 A. = 2.58999 sq. km.

2/ Dry land and land temporarily or partially covered by water, as marshland, swamps, etc.; streams and canals under one-eighth statute mile wide; and lakes, reservoirs, and ponds under 40 acres of area.

3/ Permanent inland water surface, such as lakes, reservoirs, and ponds having 40 acres or more of area; streams, sloughs, estuaries, and canals one-eighth of a statute mile or more in width; deeply indented embayments and sounds, and other coastal waters behind or sheltered by headlands or islands separated by less than one nautical mile of water; and islands having less than 40 acres of area.

4/ More exactly, the area of Molokini is 18.6 acres (equivalent to 0.03 square miles or 0.075 square kilometers).

5/ Exclusive of the Midway Islands, which are part of the Hawaiian Archipelago but not legally part of the State of Hawaii. Islands included in the State and their land areas in square miles are: Nihoa, 0.298; Necker Island, 0.091; French Frigate Shoals, 0.088; Gardner Pinnacles, 0.004; Maro Reef, awash; Laysan Island, 1.312 (plus 0.220 of inland water, for a total area of 1.533); Lisianski Island, 0.675; Pearl and Hermes Atoll, 0.122; and Kure Atoll, 0.371.

Source: Data from U.S. Bureau of the Census, Geography Division, cited in the Hawaii State Department of Planning and Economic Development, Hawai'i, the Natural Environment (1974), pp. 9 and 10.

Table 87.-- MAJOR SUMMITS

[Elevation of the highest point on each island and other important peaks.]

Island and mountain	Elevation	
	Feet	Meters
Hawaii:		
Mauna Kea	13,796	4,205
Mauna Loa	13,677	4,169
Hualalai	8,271	2,521
Kohala	5,480	1,670
Kilauea (Uwekahuna)	4,093	1,248
Kilauea (Halemaumau Rim)	3,660	1,116
Kahoolawe:		
Lua Makika	1,477	450
Maui:		
Haleakala (Red Hill)	10,023	3,055
Haleakala (Kaupo Gap)	8,201	2,500
Puu Kukui	5,788	1,764
Iao Needle	2,250	686
Lanai:		
Lanaihale	3,370	1,027
Molokai:		
Kamakou	4,970	1,515
Puu Nana	1,381	421
Oahu:		
Kaala	4,020	1,225
Konahuanui 1/	3,150	960
Oahu, continued:		
Tantalus	2,013	614
Olomana	1,643	501
Diamond Head	760	232
Punchbowl	500	152
Koko Head	642	196
Kauai:		
Kawaikini	5,243	1,598
Waialeale	5,148	1,569
Niihau:		
Paniau	1,281	390
Kaula	550	168
Nihoa	910	277
Necker Island	277	84
La Perouse Pinnacle	135	41
Gardner Pinnacles	190	58
Maro Reef	Awash	Awash
Laysan Island	35	11
Lisianski Island	20	6
Pearl and Hermes Atoll	–	–
Midway Islands 2/	12±	4±
Kure Atoll	20	6
Kingman Reef 2/	3	1
Palmyra Islands 2/	6	2

1/ Two distinct peaks. The lower has an elevation of 3,105 feet.

2/ Not part of the State of Hawaii.

Source: U.S. Geological Survey data cited in the Hawaii State Department of Planning and Economic Development, Elevations of Major Mountains in Hawaii (Statistical Report 52, November 7, 1967), as revised by U.S. National Cartographic Information Center, October 11, 1978.

Table 88.-- MAJOR STREAMS, BY ISLANDS

Island	Feature or stream	Length or ave. discharge
Longest water feature (miles):		
Hawaii	Wailuku River	32.0
Maui	Kalialinui-Waiale Gulch	18.0
Kahoolawe	Ahupu Gulch	4.0
Lanai	Maunalei-Waialala Gulch	12.9
Molokai	Wailau-Pulena Stream	6.5
Oahu	Kaukonahua Stream (So. Fork)	33.0
Kauai	Waimea River-Poomau Stream	19.5
Niihau	Keanaulii-Puniopo Valley	5.9
Largest perennial stream (miles): 1/		
Hawaii	Wailuku River	22.7
Maui	Palikea Stream	7.8
Molokai	Wailau-Pulena Stream	6.5
Oahu	Kaukonahua Stream	30.0
Kauai	Waimea River	19.7
Streams with greatest average discharge (million gal./day):		
Hawaii	Wailuku River	184.0
Maui	Iao Stream	54.1
Molokai	Pulena Stream	22.1
Oahu	Waikele Stream	25.7
Kauai	Hanalei River	151.0

1/ Estimated on basis of drainage area rather than stream runoff. Other major streams include Honokohau Stream, Maui (9.4 miles long); Halawa Stream (6.4), Waikolu Stream (4.7), and Pelekunu (2.3), all on Molokai; Waikele Stream (15.3), Kipapa Stream (12.8), and Waiakakalaua Stream (11.8), all on Oahu; and the Makaweli River (15.1), Wainiha River (13.8), Hanapepe River (13.3), and Wailua River (11.8), all on Kauai.

Source: Lengths from Hawaii State Department of Planning and Economic Development, Hawai'i, the Natural Environment (1974), p. 15; discharges from Hawaii State Department of Land and Natural Resources, Division of Water and Land Development, data supplied May 27, 1977.

Table 89.-- LARGEST LAKES, BY ISLANDS

Island	Name of largest lake 1/	Category	Maximum depth (feet)	Altitude (feet)	Area (acres)	Shoreline (miles)
Hawaii	Waiakea Pond	Natural	(NA)	Sea level	27	2
	Lake Waiau 2/	Natural	10	13,020	1.5	0.2
Maui	Kanaha Pond	Natural	(NA)	Sea level	41	2
Kahoolawe ..	None					
Lanai	None					
Molokai	Meyer Lake	Natural	5	2,021	6	1
Oahu	Wahiawa Reservoir	Man-made	85	842	333	11
Kauai	Waita Reservoir	Man-made	23	233	422	3
Niihau	Halulu Lake	Natural	(NA)	Sea level	182	3

NA Not available.

1/ Excludes shoreline fish ponds and areas filled only during floods. The largest intermittent lake is Halalii Lake, Niihau (840.7 acres).

2/ Highest lake in the State and third highest in the United States.

Source: Hawaii State Department of Land and Natural Resources, Division of Water and Land Development, records.

Table 90.-- MISCELLANEOUS GEOGRAPHIC STATISTICS, BY ISLANDS

Island	Extreme length (miles)	Extreme width (miles)	Miles of sea cliffs with heights 1,000 ft. or more	Miles from coast of most remote point	Percent of area within 5 miles of coast
The State ..	...	...	33	28.5	48.6
Hawaii	93	76	4	28.5	30.0
Maui	48	26	-	10.6	76.1
Kahoolawe	11	6	-	2.4	100.0
Lanai	18	13	1	5.2	100.0
Molokai	38	10	14	3.9	100.0
Oahu	44	30	-	10.6	79.0
Kauai	33	25	11	10.8	67.0
Niihau	18	6	3	2.4	100.0

Island	Percent of area with elevation --		Approximate mean altitude (feet)	Percent of area with slope --	
	Less than 500 feet	2,000 feet or more		Less than 10 percent	20 percent or more
The State ..	20.8	50.9	3,030	63.5	17.0
Hawaii	12.0	68.4	3,950	76.0	4.0
Maui	24.9	41.4	2,390	38.5	36.0
Kahoolawe	38.9	0	600	60.0	9.0
Lanai	24.8	6.3	1,140	61.0	16.0
Molokai	37.3	17.8	1,150	53.0	26.0
Oahu	45.3	4.6	860	42.5	45.5
Kauai	35.6	24.0	1,380	33.5	50.5
Niihau	78.2	0	530	68.0	12.5

Source: Hawaii State Department of Planning and Economic Development, Hawai'i, the Natural Environment (1974), p. 19; U.S. Geological Survey, Elevations and Distances in the United States (1978), pp. 4-5.

Table 91.-- VOLCANIC ERUPTIONS: 1969 TO 1980

Volcano and date of outbreak	Repose period since previous eruption (months)	Duration (days)	Location 1/	Elevation (feet)	Area (square miles)	Volume (1,000 cubic yards)
Mauna Loa:						
1975: July 5	300	1	S	13,000-12,100	5.2	39,200
Kilauea:						
1969: Feb. 22 ...	4.0	6	ER	3,100-2,900	2.3	22,000
May 24	2.0	867	ER	3,150	19.3	242,000
1971: Aug. 14 ...	-	1	C	3,660-3,600	0.8	12,400
Sept. 24 ..	-	5	C, SWR	3,740-2,730	1.5	10,500
1972: Feb. 4	4.3	645	ER	3,150	13.7	167,000
1973: May 5	-	1	ER	3,340-3,250	0.1	1,600
Nov. 10 ...	-	30	ER	3,250-2,900	0.4	3,700
Dec. 12 ...	0.1	203	ER	3,150	3.1	39,300
1974: July 19 ...	-	3	C, ER	3,600-3,520	1.2	9,000
Sept. 19 ..	2.0	1	C	3,680	0.4	14,000
Dec. 31 ...	3.4	1	C	3,600	2.9	19,600
1975: Nov. 29 ...	11.0	1	C	3,600	0.05	330
1977: Sept. 13 ..	21.5	18	ER	1,600-2,080	3.0	45,000
1979: Nov. 16 ...	26.3	1	ER	3,270-3,200	0.1	800

1/ C, caldera; ER, east rift; S, summit; SWR, southwest rift.

Source: Gordon A. Macdonald and Douglass H. Hubbard, Volcanoes of the National Parks in Hawaii, 7th edition (Hawaii Nautral History Association, December 1974), pp. 14 and 29, as corrected by Dr. Macdonald, May 5, 1976, and updated by the staff of the Hawaiian Volcano Observatory through March 18, 1980.

Table 92.-- EARTHQUAKES OF MAGNITUDE 5 OR GREATER: 1969 TO 1979

Date		Location	Magnitude (Richter Scale)
1969:	May 9	Hawaii	5
1971:	Aug. 1	S.E. of Hawaii	4.5-5
1972:	Dec. 23	W. of Kona	5
1973:	Apr. 26	Hawaii	6.2
	Oct. 9	Hawaii	4.8-5
1974:	Nov. 30	Hawaii	5.5-6
1975:	Jan. 1, 2:41 AM	Near Pahala, Hawaii	5.1
	Jan. 1, 3:20 AM	Mauna Loa, Hawaii	5.1
	Jan. 2	Near Pahala, Hawaii	5.6
	Jan. 5	Mauna Loa, Hawaii	5.1
	Nov. 29, 3:35 AM	Puna, Hawaii	5.7
	Nov. 29, 4:47 AM	Puna, Hawaii	7.2
1977:	Jan. 22	100 miles S. of Kauai	5.0
1979:	Sept. 21	Puna, Hawaii	5.5

Source: Augustine S. Furumoto, N. Norby Nielsen, and William R. Phillips, A Study of Past Earthquakes, Isoseismic Zones of Intensity and Recommended Zones for Structural Design for Hawaii (University of Hawaii, Center for Engineering Research, June 15, 1972), pp. 16-19; Hawaii Institute of Geophysics, records; U.S. Geological Survey, National Earthquake Information Service.

Table 93.-- TSUNAMIS WITH RUN-UP OF 2 METERS (6.6 FEET) OR MORE: 1946 TO 1980

(Correct to April 15, 1980.)

Date	Maximum height in Hawaii		Deaths in Hawaii	Damage in Hawaii (dollars)
	Meters	Feet		
1946: April 1	17.0	55.8	159	26,000,000
1952: Nov. 4	6.1	20.0	-	1,000,000
1957: March 9	16.0	52.5	-	5,000,000
1960: May 22	10.5	34.5	61	23,000,000
1964: March 27	4.8	15.7	-	67,590
1975: Nov. 29	14.6	48.0	2	1,500,000

Source: George Pararas-Carayannis, Catalog of Tsunamis in the Hawaiian Islands (U.S. Coast and Geodetic Survey, May 1969); Robert C. Schmitt, "Catastrophic Mortality in Hawaii," The Hawaiian Journal of History, Vol. III (1969), pp. 66-86; Hawaii Institute of Geophysics, records; Harold G. Loomis, The Tsunami of November 29, 1975 in Hawaii (Hawaii Institute of Geophysics, December 1975), pp. 1 and 10; D.C. Cox and J. Morgan, Local Tsunamis and Possible Local Tsunamis in Hawaii (Hawaii Institute of Geophysics, Report HIG 77-14, November 1977).

Table 94.— MAJOR DAMS: 1977

Name	Location	Height (ft.)	Length (ft.)	Volume (cubic yards)	Volume of water impounded (acre ft.)
Wahiawa Dam ...	Wahiawa, Oahu.....	98	460	167,000	7,776
Waita	Koloa, Kauai......	27	3,050	(NA)	7,350
Kualapuu	Kualapuu, Molokai.	58	3,900	1,267,000	4,290
Alexander Dam..	Kalaheo, Kauai....	104	700	(NA)	2,490

NA Not available.

Source: Hawaii State Department of Land and Natural Resources, Division of Water and Land Development, information supplied March 11, 1977.

Table 95.-- WATER USE: 1965 TO 1975

[In millions of gallons per day, unless otherwise specified.]

Subject	1965	1970	1975
Water withdrawn 1/	2,000	2,700	2,500
Ground water	820	920	870
Fresh	780	910	850
Saline	37	13	15
Surface water	1,200	1,700	1,600
Fresh	670	850	650
Saline	500	860	980
Reclaimed sewage	-	66	-
Withdrawn for irrigation	1,160	1,280	950
Conveyance losses	200	220	450
Used for hydroelectric power	360	330	200
Fresh water consumed	580	810	560
Per capita use (gallons per day) ...	2,800	3,500	1,900

1/ Excludes water used for hydroelectric power but includes irrigation conveyance losses.

Source: U.S. Geological Survey, Estimated Use of Water in the United States for 1965 (Circular 556, 1968), 1970 (Circular 676, 1972), and 1975 (Circular 765, 1977).

Table 96.-- WATER SERVICES AND CONSUMPTION, FOR COUNTY WATERWORKS: 1978 AND 1979

Geographic area	Number of services, June 30		Consumption (millions of gallons) 1/	
	1978	1979	1978	1979
State total	166,821	170,542	55,100	54,628
City and County of Honolulu ..	120,172	122,067	42,466	42,446
Honolulu 2/	57,091	57,574	24,191	24,271
Rest of Oahu	63,081	64,493	18,275	18,175
Hawaii County	20,470	21,380	4,229	4,088
Kauai County	9,289	9,684	2,454	2,444
Maui County	16,890	17,411	5,951	5,650
Maui	15,811	16,326	5,701	5,403
Molokai	1,079	1,085	250	246

1/ Year ended June 30.

2/ Maunalua to Moanalua.

Source: Honolulu Board of Water Supply, Annual Report and Statistical Summary for 1977-1978 and 1978-1979; Hawaii Department of Water Supply, 1978-1979 Annual Report; Kauai Office of the Mayor, Annual Report 1978: Departments and Agencies; Kauai Department of Water, records; Maui Department of Water Supply, Annual Report for the Fiscal Year Ended June 30, 1979.

Table 97.-- WATER QUALITY AT OAHU BEACHES: 1976 TO 1979

Beach	Number of samples				Fecal coliform density 1/ (geometric mean, MPN/100 ml)			
	1976	1977	1978	1979	1976	1977	1978	1979
Ala Moana Park (Ewa)	34	33	42	43	4.7	3.8	5.0	5.6
Ala Moana Park (Center)	14	9	12	12	6.0	2.0	3.2	3.7
Ala Moana Park (Diamond Head)	19	9	12	12	5.4	2.0	3.9	6.8
Elks Club Beach	13	8	12	12	17.0	4.2	5.0	15.8
Ewa Beach	10	11	10	12	6.2	2.5	6.2	4.5
Fort DeRussy Beach	12	9	12	11	24.3	3.1	4.2	18.5
Gray's Beach	34	34	41	43	6.2	4.7	6.6	6.9
Haleiwa Park Beach	3	5	-	-	9.9	2.9	(NA)	(NA)
Hanauma Bay	8	10	11	12	2.7	4.0	2.4	10.0
Hauula Park Beach	8	4	-	-	7.9	6.3	(NA)	(NA)
Kaaawa Park Beach	8	4	-	-	10.2	21.4	(NA)	(NA)
Kahana Park Beach	8	4	11	11	18.7	81.4	49.5	42.9
Kahanamoku Beach	14	13	12	12	4.6	6.3	4.2	17.3
Kahanamoku Lagoon (Diamond Head) .	28	32	42	43	12.5	8.7	84.9	94.8
Kailua Park Beach	8	10	11	12	6.6	9.1	6.7	17.8
Kalama Beach	8	4	-	-	6.6	3.6	(NA)	(NA)
Kokokahi Pier	8	9	11	12	33.1	58.0	30.3	45.6
Kuhio Beach	14	11	9	12	25.0	19.3	10.6	17.9
Makaha Beach	11	6	-	-	2.2	3.2	(NA)	(NA)
Nanakuli Park Beach	12	6	-	-	3.4	2.5	(NA)	(NA)
Public Bath Beach	32	33	40	43	4.5	2.4	3.6	4.3
Punaluu Park Beach	8	4	-	-	26.2	14.7	(NA)	(NA)
Sandy Beach (East)	8	10	-	-	7.5	2.6	(NA)	(NA)
Sandy Beach (West)	-	-	1	-	(NA)	(NA)	2.0	(NA)
Tavern Beach	13	9	15	12	3.5	4.2	10.1	8.9
Waianae Park Beach	12	12	-	-	3.1	4.1	(NA)	(NA)
Waimanalo Park Beach	9	10	-	-	9.4	8.5	(NA)	(NA)

NA Not available.

1/ EPA criterion for bathing waters: Not to exceed a geometric mean of 200 fecal coliform bacteria per 100 ml. or water.

Source: Hawaii State Department of Health, Pollution Investigation and Enforcement Branch, records.

Table 98.-- SUSPENDED PARTICULATE MATTER FOR HONOLULU: 1970 TO 1979

(Sampling conducted from roof of Health Department Building. Annual mean levels over 80 micrograms per cubic meter may affect human health.)

Year	Mean micrograms per cubic meter
1970	37
1971	45
1972	41
1973	34
1974	35
1975	40
1976	34
1977	31
1978	29
1979	32

Source: Hawaii State Department of Health, Statistical Report (annual) and records.

Table 99.-- AIR POLLUTANT EMISSIONS, BY SOURCE AND COUNTIES: 1976

[In tons per year; as of July.]

Counties and sources	Sulfur oxides	Particu-lates	Carbon monoxide	Hydro-carbons	Nitrogen oxides
Total	66,702	80,166	329,662	94,607	61,524
COUNTIES					
City and County of Honolulu	59,090	45,841	212,255	58,998	44,510
County of Hawaii	3,355	8,925	49,335	14,823	6,860
County of Kauai	1,194	7,291	32,088	10,207	3,710
County of Maui	3,063	18,109	35,984	10,579	6,444
SOURCES					
Transportation	2,761	4,004	239,843	44,471	26,612
Motor vehicles	780	2,402	219,038	35,128	20,644
Aircraft	310	1,122	6,252	3,904	1,584
Vessels	1,436	207	3,530	1,293	1,342
Off-highway fuel usage	235	272	11,023	1,203	3,042
Gasoline handling and evaporation	(N)	(N)	(N)	2,943	(N)
Fuel combustion in stationary sources	58,117	12,872	4,628	5,991	30,906
Residential, commercial, institutional	1,044	228	99	73	716
Industrial and agricultural	14,403	9,936	3,725	5,484	6,545
Steam-electric utilities	42,670	2,708	804	434	23,645
Solid waste disposal	299	1,343	6,196	2,998	470
Open burning	41	698	3,704	1,309	262
Incineration	258	645	2,492	1,689	208
Industrial process losses	5,525	39,754	668	15,038	925
Agricultural field burning	(N)	22,193	78,327	26,109	2,611

N Negligible
Source: Hawaii State Department of Health, Pollution Investigation and Enforcement Branch, records.

Table 100.-- AEROMETRIC SURVEY DATA FOR SPECIFIED LOCATIONS: 1979

Location	Particulate matter (micrograms per cubic meter)			Sulfur dioxide (micrograms per cubic meter)		
	Minimum	Maximum	Annual average	Minimum	Maximum	Annual average
Oahu:						
Ala Moana 1/	20	102	39	5	13	5
Dept. of Health Bldg. .	22	62	32	5	42	22
Kalihi Kai	25	112	56	5	16	5
Pearl City	20	48	34	5	63	8
Barbers Point	23	223	76	5	27	5
Waimanalo	12	54	30	...	...	...
Maui:						
Kahului	42	148	92	5	241	48
Kihei	12	120	49	...	...	...
Hawaii:						
Hilo	8	65	22	5	20	5
Honokaa 2/	10	43	22	...	...	...
Kauai:						
Lihue	16	86	40	5	5	5

1/ Site discontinued December 5, 1979, and moved to Ft. DeRussy in Waikīkī.

2/ Site established July 1, 1979

Source: Hawaii State Department of Health, Pollution Investigation and Enforcement Branch, records.

Table 101.-- NOISE LEVELS IN VARIOUS NEIGHBORHOODS ON OAHU: 1974

Neighborhood	Noise level (in decibels) exceeded -- 10 percent of time	50 percent of time	90 percent of time
HONOLULU			
Aina Haina	53.5	45.0	40.0
Aina Koa	61.0	48.4	42.3
Downtown	67.0	58.0	50.5
Hawaii Kai	57.0	46.5	40.5
Kahala	56.7	45.5	42.0
Kaimuki	59.0	50.7	44.0
Kalihi	58.0	50.2	43.7
Kapahulu	55.0	49.7	44.0
Kapalama-Liliha	63.8	56.0	46.0
Kuliouou	53.5	46.3	40.5
Makiki	64.5	55.0	49.5
Manoa	58.7	[illegible]	40.0
Moiliili	62.0	55.0	50.0
Niu Valley	57.0	46.7	39.5
Nuuanu	63.0	50.1	45.4
Palolo	58.5	49.4	44.0
Pawaa	65.5	60.0	54.0
Waikiki	69.0	61.5	54.0
Waialae-Iki	60.0	50.5	41.5
Ward to Punchbowl	67.5	60.2	57.0
REST OF OAHU			
Aiea-Waimalu	57.5	47.3	40.5
Halawa Heights, Foster Village, Salt Lake, Aliamanu	57.5	54.5	48.7
Kailua	55.5	45.0	37.5
Kaneohe	54.0	45.5	40.5
Mililani Town	57.5	50.0	45.0
Pearl City	53.2	44.7	38.7
Wahiawa	62.5	50.5	46.0
Waianae	56.5	50.0	45.0
Waimanalo	54.5	50.0	44.5
Waipahu	59.0	51.0	45.5

Source: Survey conducted by Dr. Iwao Miyake for the Hawaii State Department of Health, and summarized by the Noise and Radiation Branch, Department of Health.

Table 102.-- CLIMATIC DATA FOR SELECTED PLACES

Island and station	Ground elevation (feet)	Average temperature (°F.)		Extreme temperature of record (°F.)		Average annual precipitation (inches)	Average annual possible sunshine (percent)
		Coolest month	Warmest month	Lowest	Highest		
Hawaii:							
Hilo Airport	26	71.0	75.9	53	94	133.57	40
Hawaii Volcanoes Nat. Park Hdq.	3,971	57.6	63.2	37	85	102.81	...
Kailua	30	72.1	77.3	54	93	25.22	...
Puako 1/	10	73.1	79.8	52	98	9.47	...
Waimea (Kamuela)	2,670	62.3	66.8	34	90	40.05	...
Mauna Kea summit 2/	13,796	31.1	42.5	11	66	8.08	...
Maui:							
Hana	120	71.3	76.8	50	90	70.65	...
Haleakala summit	9,960	42.6	50.0	14	73	50.69	...
Kihei 3/	90	70.9	78.4	49	98	13.79	...
Kahuluī Airport	48	71.6	78.8	48	96	18.43	70
Lahaina	45	71.5	78.0	52	93	15.51	...
Molokai:							
Kaunakakai	12	...	...	...	...	14.08	...
Molokai Airport	450	70.2	77.6	48	90	29.21	...
Lanai:							
Lanai City	1,620	65.8	72.8	46	88	38.44	...
Oahu:							
Honolulu International Airport	7	72.3	80.7	53	93	22.90	68
Honolulu Federal Bldg. 4/	12	72.0	78.6	57	88	25.35	65
Waikiki 5/	10	71.9	80.6	51	93	27.32	...
Manoa (HSPA)	500	69.4	75.2	...	...	158.41	...
Kaneohe MCAS	10	72.9	79.1	58	90	43.88	...
Kahuku	25	71.6	78.8	49	95	41.10	...
Wheeler AFB	826	68.2	75.5	52	89	39.85	...
Waianae	20	72.1	79.7	45	96	20.31	...

Continued on next page.

Table 102.-- CLIMATIC DATA FOR SELECTED PLACES -- Con.

Island and station	Ground elevation (feet)	Average temperature (°F.)		Extreme temperature of record (°F.)		Average annual precipitation (inches)	Average annual possible sunshine (percent)
		Coolest month	Warmest month	Lowest	Highest		
Kauai:							
Kilauea	315	68.7	75.6	49	94	68.03	...
Kealia	9	70.2	78.0	44	93	43.28	...
Lihue Airport	103	71.2	79.1	50	90	44.18	56
Poipu (Makahuena Pt.)	52	72.4	79.4	50	93	36.39	...
Kokee (Kanalohuluhulu)	3,600	54.9	65.5	31	80	72.25	...
Waialeale	5,075	...	...	...	...	486.	...
Northwestern Hawaiian Islands:							
Midway	10	65.0	78.6	52	89	43.60	...

[1] Temperature data are for Mohukona.
[2] Based on incomplete and non-continuous data for 1966-1972.
[3] Temperature data refer to Puunene Airport.
[4] Temperature sensors are 87 feet above the ground.
[5] Located at Honolulu Zoo. Available only from 1965.

Source: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Weather Service Pacific Region, data supplied March 17, 1976 and May 2, 1977, and National Climatic Center, *Local Climatological Data, Annual Summary With Comparative Data, 1979* for Hilo, Kahului, Honolulu, and Lihue.

Table 103.-- MONTHLY AND ANNUAL CLIMATIC DATA FOR HONOLULU INTERNATIONAL AIRPORT

Month	Normal temperature (°F.)			Extreme temperature (°F.) 1/		Precipitation (inches)			
	Daily maximum	Daily minimum	Monthly	Record highest	Record lowest	Normal total	Maximum monthly	Minimum monthly	Maximum in 24 hours
Jan. .	79.3	65.3	72.3	87	53	4.40	14.74	0.34	6.72
Feb. .	79.2	65.3	72.3	87	53	2.46	13.68	0.32	6.88
Mar. .	79.7	66.3	73.0	88	55	3.18	20.79	0.01	17.07
Apr. .	81.4	68.1	74.8	89	59	1.36	8.92	0.01	4.21
May ..	83.6	70.2	76.9	90	63	0.96	7.23	0.05	3.44
June .	85.6	72.2	78.9	90	65	0.32	2.46	T	2.28
July .	86.8	73.4	80.1	91	67	0.60	2.01	0.03	1.03
Aug. .	87.4	74.0	80.7	92	67	0.76	3.08	T	2.35
Sept.	87.4	73.4	80.4	92	66	0.67	2.74	0.05	1.40
Oct. .	85.8	72.0	78.9	93	64	1.51	11.15	0.11	7.57
Nov. .	83.2	69.8	76.5	89	58	2.99	14.72	0.03	9.15
Dec. .	80.3	67.1	73.7	89	54	3.69	12.09	0.06	8.14
Ann. .	83.3	69.8	76.6	93	53	22.90	20.79	T	17.07

Continued on next page.

Table 103.-- MONTHLY AND ANNUAL CLIMATIC DATA FOR HONOLULU INTERNATIONAL AIRPORT -- Con.

Month	Relative humidity (percent) 2/		Wind (miles/hour)		Percent of possible sun-shine	Mean sky cover, sunrise to sun-set 3/	Mean number of days		
							Sunrise to sunset		Precip. .01 inch or more
	8 A.M.	2 P.M.	Mean speed	Fastest mile			Clear	Cloudy	
Jan. ...	80	63	10.0	67	63	5.5	9	9	10
Feb. ...	77	60	10.7	63	64	5.7	7	9	10
Mar. ...	73	58	11.6	59	68	5.9	7	10	9
Apr. ...	69	57	12.1	40	67	6.3	6	11	9
May	67	55	12.2	35	69	6.1	6	10	7
June ...	67	53	12.9	39	70	5.7	6	7	6
July ...	66	51	13.7	34	74	5.3	8	5	7
Aug	67	54	13.5	52	75	5.3	8	6	7
Sept. ..	66	52	11.7	36	75	5.2	9	6	7
Oct. ...	68	55	10.9	40	68	5.7	7	8	9
Nov. ...	74	59	11.1	65	60	5.7	7	9	10
Dec. ...	77	60	11.0	59	59	5.6	8	10	10
Ann. ...	71	56	11.8	67	68	5.7	88	100	101

T Trace, an amount too small to measure.

1/ For periods October 1962 through December 1964 and September 1971 through December 1979.

2/ Data for 1963, 1964, and 1972-1979.

3/ Sky cover is expressed in a range of 0 for no clouds or obscuring phenomena to 10 for complete sky cover.

Source: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, Environmental Data Service, Local Climatological Data, Annual Summary With Comparative Data, Honolulu, 1979.

Table 104.-- CLIMATIC DATA FOR THE PERIOD OF RECORD

Subject	Date	Place	Magnitude
Long-term averages:			
Lowest monthly average minimum temp. (°F.)	February	Mauna Kea summit	23.3
Lowest monthly average daily temp. (°F.)	February	Mauna Kea summit	31.1
Highest monthly average maximum temp. (°F.)	August	Waiawa, Kauai	89.7
Highest monthly average daily temp. (°F.)	August	Puako, Hawaii	80.7
Lowest average annual rainfall (inches)		N. of Kawaihae	5.7
Highest average annual rainfall (inches)		Waialeale	486.
Single events:			
Lowest temperature of record (°F.)	Feb. 11, 1973	Mauna Kea summit	11.
Highest temperature of record (°F.)	April 27, 1931	Pahala, Hawaii	100.
Lowest annual rainfall of record (inches)	1953	Kawaihae, Hawaii	0.2
Highest annual rainfall of record (inches)	1947-1948	Waialeale	624.
Highest wind speed of record (m.p.h.)	Jan. 17-18, 1959	Mauna Loa Obser.	105+

Source: U.S. Department of Commerce, National Weather Service, Pacific Region, data supplied March 14, 1973.

Table 105.-- RAINFALL, FOR SPECIFIED LOCATIONS: ANNUALLY, 1969 TO 1979

(In inches.)

Year	Hawaii		Maui		Oahu: Honolulu 1/	Kauai	
	Hilo 2/	Kona 3/	Kahului 2/	Lahaina		Lihue 2/	Koloa
1969 ..	173.23	32.89	25.21	10.09	26.71	34.17	72.42
1970 ..	153.98	20.78	18.61	11.95	18.35	39.18	64.45
1971 ..	140.69	37.61	20.13	15.93	28.61	49.62	75.33
1972 ..	98.85	33.22	15.71	20.21	26.72	43.54	66.72
1973 ..	107.97	14.85	10.27	10.13	18.66	35.27	66.78
1974 ..	112.92	40.49	18.68	13.01	28.24	45.60	86.35
1975 ..	99.93	25.97	13.74	12.19	24.63	35.52	49.91
1976 ..	114.67	25.51	12.83	8.86	...	32.83	62.60
1977 ..	90.38	...	11.50	8.28	...	40.34	52.51
1978 ..	119.09	26.29	19.15	11.97	25.63	39.11	70.64
1979 ..	158.77	...	26.82	20.85	24.78	37.09	55.98

1/ Old Federal Building (South King St. and Richards St.). Observations suspended November 26, 1976 - March 31, 1977.

2/ Airport data.

3/ Holualoa Beach. Observations incomplete for 1977 and discontinued after December 31, 1978.

Source: U.S. Department of Commerce, National Climatic Center, *Local Climatological Data, Annual Summary with Comparative Data, 1979* for Hilo, Kahului, and Lihue; U.S. Department of Commerce, National Weather Service, Pacific Region, records; and Hawaii State Department of Land and Natural Resources, Division of Water and Land Development, records.

Table 106.-- CLIMATIC DATA FOR HONOLULU INTERNATIONAL AIRPORT: ANNUALLY, 1969 TO 1979

Year	Average temperature (°F.)			Extreme temp. (°F.)		Precipitation (inches)
	Annual	Coolest month	Warmest month	Lowest	Highest	
1969 ...	77.4	69.1	83.2	52	92	22.50
1970 ...	78.2	73.3	83.8	58	92	15.49
1971 ...	76.1	71.7	79.5	56	89	26.64
1972 ...	76.2	70.4	81.1	53	90	26.94
1973 ...	77.2	72.6	81.2	55	91	14.24
1974 ...	77.5	74.0	81.2	58	92	24.02
1975 ...	76.2	72.4	80.1	56	90	24.39
1976 ...	76.8	72.0	80.8	53	91	12.90
1977 ...	78.2	73.7	82.2	59	92	12.36
1978 ...	76.8	72.4	80.5	57	91	25.05
1979 ...	77.0	69.9	81.1	57	93	16.93

Year	Relative humidity (%)		Wind speed (miles/hour)		Percent of possible sunshine	Days with precipitation .01 inch or more
	8 A.M.	2 P.M.	Annual average	Fastest mile		
1969 ...	73	57	12.8	40	68	96
1970 ...	69	54	13.2	40	72	120
1971 ...	72	57	13.3	34	70	110
1972 ...	72	57	13.2	33	65	93
1973 ...	70	54	12.7	33	63	110
1974 ...	73	58	10.9	34	61	118
1975 ...	72	56	12.2	36	62	82
1976 ...	64	52	11.5	38	60	105
1977 ...	71	55	12.2	37	68	81
1978 ...	74	58	11.9	34	69	90
1979 ...	74	57	11.4	34	68	89

Source: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Climatic Center, *Local Climatological Data, Annual Summary With Comparative Data, Honolulu, Hawaii* (annual).

Table 107.-- TRADE WINDS, HIGH SURF, AND TEMPERATURES IN HAWAIIAN WATERS, BY MONTHS

Month	Trade wind frequency 1/ (percent)	Expected days of strong trade winds 2/	Highest surf 3/ (average number of days)		Water temperature (^oF.)	
			Flat or 1 foot	6 feet or more	Mean maximum	Mean minimum
Jan. ...	42	9	1	19	74.7	71.1
Feb. ...	55	7	1	16	75.6	70.3
March ..	61	10	1	12	76.5	71.8
April ..	74	10	3	7	77.7	73.0
May	86	7	8	3	79.5	74.7
June ...	91	7	15	-	81.1	77.7
July ...	95	10	16	-	81.1	78.3
Aug. ...	94	7	15	-	81.9	79.2
Sept. ..	83	4	10	2	81.9	78.4
Oct. ...	71	4	1	12	81.1	77.2
Nov. ...	64	8	-	19	79.3	74.5
Dec. ...	57	9	-	20	75.9	71.4
Ann. ...	65	92	71	110	78.6	74.8

1/ Mean monthly frequency of trade winds in Hawaiian waters.

2/ Expected number of hazardous days in Hawaiian waters due to strong trade winds.

3/ Observations at Sunset Beach, Oahu. Annual averages were: flat or 1 foot, 71 days; 2-5 feet, 184 days; 6-10 feet, 71 days; 11-15 feet, 26 days; 16 feet or higher, 13 days.

4/ Observations at Kaneohe, Oahu. The mean ranged from 73.0 in January and February to 80.2 in August. Absolute maximums and minimums were respectively 84 (in July, August, and October) and 68 (December and February).

Source: Paul Haraguchi, Weather in Hawaiian Waters (Honolulu: Pacific Weather, Inc., 1979), pages 14, 22, 56, and 74.

Table 108.-- AVERAGE WATER TEMPERATURES AT WAIKIKI BEACH

(°F)

Month	Morning	Afternoon
March	75	77
August	77	82

Source: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, Local Climatological Data, Annual Summary With Comparative Data, Honolulu, Hawaii, 1979.

Table 109.-- SUNRISE, SUNSET, AND HOURS OF DAYLIGHT AT HILO, HONOLULU, AND LIHUE, FOR SELECTED DATES

(Hawaiian Standard Time)

Subject	March 21	June 21	Sept. 23	Dec. 22
Sunrise (A.M.):				
Hilo	6:24	5:42	6:09	6:51
Honolulu	6:35	5:50	6:21	7:05
Lihue	6:41	5:55	6:26	7:12
Sunset (P.M.):				
Hilo	6:32	7:02	6:16	5:47
Honolulu	6:43	7:16	6:27	5:55
Lihue	6:49	7:23	6:33	6:00
Hours of daylight:				
Hilo	12:08	13:20	12:07	10:56
Honolulu	12:08	13:26	12:06	10:50
Lihue	12:08	13:28	12:07	10:48

Source: Nautical Almanac Office, U.S. Naval Observatory, Tables of Sunrise and Sunset, No. 1083 and 1084 and records.

Table 110.-- TREES ALONG STREETS OR IN PARKS UNDER THE JURISDICTION OF THE CITY AND COUNTY OF HONOLULU: 1978 AND 1979

Location	June 30, 1978	June 30, 1979
Along City and County streets and highways 1/ ...	101,021	104,499
In City and County parks	94,800	95,600

1/ Excludes Federal, State, and private thoroughfares.

Source: City and County of Honolulu, Department of Parks and Recreation, records.

Table 111.-- ENDANGERED, THREATENED, AND EXTINCT SPECIES OF NATIVE HIGHER PLANTS: 1977

Status	Species, subspecies, and varieties	Percent
Total native flora	2,200	100.0
Endangered, threatened, or extinct 1/ ...	1,113	50.6
Endangered	646	29.4
Threatened	197	8.9
Extinct	270	12.3
Not endangered, threatened, or extinct .	1,087	49.4

1/ For the other 49 States, 2,140 (or 10.7 percent) of all 20,000 native higher plants are endangered, threatened, or extinct.

Source: Edward S. Ayensu and Robert A. DeFilipps, Endangered and Threatened Plants of the United States (Smithsonian Institution and the World Wildlife Fund, Inc., 1978), p. xiii.

Table 112.-- HAWAII AUDUBON SOCIETY BIRD COUNTS OF THE HONOLULU AREA: 1970 TO 1979

(Counts are made in late December, in a circle, 15 miles in diameter, centered near Nuuanu Pali.)

Species 1/	Annual averages			
	1970-1974	1975-1979	1978	1979
All species:				
Species	49	54	55	55
Individual birds ..	11,614	15,811	16,204	18,909
Endemic species:				
'Apapane	35	135	114	243
Hawaiian Coot	69	35	20	31
Hawaiian Stilt	112	128	116	164
Oahu 'Amakihi	42	132	74	182
Indigenous species:				
Great Frigatebird	614	597	585	861
Red-footed Booby	1,463	1,401	1,669	1,200
Introduced species:				
Barred Dove	1,468	2,216	2,389	2,843
Cattle Egret	759	1,156	1,445	1,393
Common Myna	2,567	2,241	2,616	2,274
House Sparrow	1,373	1,155	1,216	1,537
Japanese White-eye	450	1,165	723	1,091
Red-vented Bulbul	31	503	548	557
Spotted Dove	586	1,091	1,044	1,413
Migratory species:				
Golden Plover	564	1,138	1,422	1,562
Ruddy Turnstove	97	165	223	237

1/ Separate data are shown for endemic birds averaging more than 25 individuals in 1975-1979, indigenous birds more than 200, introduced birds more than 500, and migratory species and stragglers more than 100. Endemic birds are those peculiar to a particular region, in this case Hawaii, and therefore found nowhere else in the world; indigenous birds are those native to a given region, in this case Hawaii, but with a total range of distribution encompassing a much wider area. The classification is that in Andrew J. Berger, Hawaiian Birdlife (1972).

Source: Hawaii Audubon Society, The 'Elepaio (monthly).

Section 6

LAND USE AND OWNERSHIP

General statistics on the use, ownership, and tenure of land appear in this section. Information on specific use or ownership categories is given elsewhere: parks in section 7, military land in section 10, farms in section 19, and forests in section 20.

Out of the 4,128,000 acres in the State, almost 2,200,000 are in unused open space. Other major categories include agriculture, with 1,356,000 acres, services (including military installations), with 125,000, and recreation, with 273,000. In the Honolulu Standard Metropolitan Statistical Area (which is coterminous with Oahu), land in residential use increased from 16,500 acres in 1964 to 27,100 in 1978; during the same 14-year span, agricultural land declined from 94,500 to 75,600 acres. For the State as a whole, the Land Use Commission has zoned 152,000 acres as "urban," 1,976,000 as "conservation," 1,974,000 as "agricultural," and 9,000 as "rural."

Recent data on land ownership indicate that the Federal government owns 7.3 percent of all land, the State and counties own 34.8 percent, and private owners (chiefly large estates) have 57.9 percent. Total Federal holdings reported by the General Services Administration come to 402,900 acres, exclusive of leased land (48,500 acres); most of the Federal land is in park and military use. The State Department of Hawaiian Home Lands holds about 190,000 acres, divided among 3,052 lessees. Total land parcels in the State number 366,000.

Considerable caution is necessary in comparing statistics from different sources on land use, ownership, or tenure. Variations in definitions and survey dates seriously affect comparability in many instances, even where terminology is relatively unambiguous and misinterpretation seems unlikely. An example of such difficulties is the wide range in estimates of Federal land, with Federal totals ranging from 297,000 acres to 403,000. Recent statistics on military land use are likewise confusing, going as high as 175,000 acres and as low as 56,000.

Reports of the U.S. Department of Agriculture and General Services Administration, Hawaii State Department of Hawaiian Home Lands, Department of Land and Natural Resources, Department of Planning and Economic Develoment, Department of Taxation, and Land Use Commission, and county planning departments provided the data for this section. Greater detail appears in DPED Statistical Report 98, *Land Use and Ownership Trends in Hawaii*, issued December 28, 1973. *Historical Statistics of Hawaii*, Section 12, contains limited information for earlier years. Statistics for the nation as a whole are available in Sections 8 and 24 of the *Statistical Abstract of the United States: 1979*.

Table 113.-- MAJOR USES OF LAND: 1974

[In thousands of acres]

Use	Area
Approximate land area	4,112
Cropland 1/	357
Crops 2/	151
Idle	169
Pasture 3/	37
Grassland pasture and range 4/	1,018
Forest land 5/	1,626
Grazed	460
Not grazed	1,166
Special uses	842
Urban areas	178
Rural transportation areas 6/	35
Rural parks 7/	273
Wildlife refuges	162
Defense and industrial areas	174
Farmsteads, farm roads, and lanes	20
Other land 8/	269

1/ Total acreage in the crop rotation.

2/ Includes cropland harvested, crop failure, and cultivated summer fallow.

3/ Cropland used only for pasture.

4/ Grassland and other nonforested pasture, excluding cropland used only for pasture.

5/ Forest land, excluding reserved forest land and some unreserved areas duplicated in parks and other special uses of land.

6/ Includes rural highways and roads, railroads, and civilian airports.

7/ Areas in National and State parks sytems.

8/ Miscellaneous areas with low agricultural use value, such as marshes, bare rock areas, and deserts.

Source: H. Thomas Frey, Major Uses of Land in the United States: 1974 (U.S. Department of Agriculture, Agricultural Economic Report No. 440, November 1979).

Table 114.-- LAND USE, BY COUNTY AND ISLAND: 1972-1976

[In acres]

Land use	State total	Hawaii County (Dec. 1976)	Maui County (Spring 1972)			City and County of Honolulu (Dec. 1976)	Kauai County (May 1972)	
			Maui and Kahoolawe	Lanai	Molokai		Kauai	Niihau
All uses 1/	4,046,902	2,520,906	490,234	89,071	168,256	373,369	357,978	47,088
Residential	65,494	11,975	17,292	256	2,963	27,031	5,968	9
Manufacturing	3,769	619	774	-	754	1,442	177	3
Mfg. services 2/	11,076	1,586	657	54	54	2,838	5,880	7
Commercial 3/	2,299	435	233	13	38	1,467	113	-
Services 4/	125,023	37,823	30,986	80	810	52,603	2,336	385
Social and cultural 5/ .	7,734	1,844	1,302	15	93	4,114	361	5
Recreation 6/	273,311	243,324	18,778	89	34	5,862	5,224	-
Agriculture	1,356,195	819,249	197,900	15,020	37,199	75,796	167,650	43,381
Transportation 7/	5,343	1,417	776	165	24	1,688	1,273	-
Unused open spaces 8/ ..	2,196,659	1,402,635	221,534	73,380	126,289	200,527	168,996	3,298

1/ Excludes public streets and highways.

2/ Includes warehousing, construction services, and public utilities.

3/ Retail and wholesale trade.

4/ Includes commercial amusement and recreation, hotels, military installations, government offices, parking, cemeteries, personal services, business and repair services, professional services, and finance, insurance, and real estate.

5/ Educational, cultural, and religious.

6/ Excludes commercial amusement and recreation services.

7/ Includes airports, docks, and land transportation facilities.

8/ Includes vacant land, forest reserve, lakes, steep land, and undedicated streets.

Source: Hawaii State Department of Planning and Economic Development, Kauai County Land Inventory Report: 1972 (1974), and Maui County Land Inventory Report: 1972 (1974); City and County of Honolulu, Department of General Planning, Oahu Land Use Inventory, 1976, special tabulation; County of Hawaii, Planning Department, Hawaii County Land Use Inventory, December 1976, special tabulation.

Table 115.-- LAND USE AND STRUCTURAL CHARACTERISTICS OF OAHU: 1978

Subject	Oahu total	City of Honolulu 1/	Rest of Oahu
LAND USE (IN ACRES)			
All existing uses	373,216	51,530	361,686
Single family	24,908	8,056	16,852
Multi-family	2,224	1,056	1,169
Industrial	6,670	2,935	3,735
Commercial	4,323	1,739	2,584
Hotel	231	116	115
Agriculture	75,560	309	75,251
Usable vacant	39,862	3,620	36,241
Other	219,438	33,699	185,739
STRUCTURES BY YEAR BUILT			
All structures	135,630	62,337	73,293
Before 1930	9,307	7,127	2,180
1930 to 1939	10,512	6,724	3,788
1940 to 1949	17,138	9,766	7,372
1950 to 1959	31,351	15,247	16,104
1960 to 1969	41,889	15,918	25,971
1970 and later	25,265	7,406	17,859
Not reported and unknown	168	149	19
NONRESIDENTIAL FLOOR AREA 2/ (1,000 SQUARE FEET)			
All nonresidential floor area	108,968	89,921	19,047
Transportation	4,125	3,980	145
Manufacturing	8,772	6,541	2,231
Utilities and communications	2,024	1,642	382
Contract construction	2,709	2,177	532
Wholesale trade and warehousing	11,084	8,878	2,206
Commercial retail	17,572	12,138	5,434
Commercial services	18,720	16,494	2,226
Public and quasi-public buildings	21,893	17,862	4,031
Hotel	17,558	16,752	806
Vacant or unknown uses	4,511	3,457	1,054

Continued on next page.

Table 115.-- LAND USE AND STRUCTURAL CHARACTERISTICS OF OAHU: 1978 -- Continued

Subject	Oahu total	City of Honolulu 1/	Rest of Oahu
DWELLING UNITS BY TYPE			
All dwelling units	227,699	133,926	93,773
Single family and duplex	123,301	54,283	69,018
Low density multi-family	10,211	978	9,233
High density multi-family	94,187	78,665	15,773

1/ As defined for statistical purposes. The entire island of Oahu is a single municipality.

2/ For definitions, see City and County of Honolulu, Department of General Planning, Planning Data for Oahu: 1975 Land Use Data by Small Area (May 1978).

Source: City and County of Honolulu, Department of General Planning, records.

Table 116.-- LAND PARCELS, BY COUNTIES: 1970 TO 1980

(As of July 1, 1970-1976 and January 1, 1977-1980.)

Year	State total	City and County of Honolulu	County of Maui	County of Hawaii	County of Kauai
1970	259,077	122,401	23,700	101,851	11,125
1971	270,336	128,153	24,557	106,037	11,589
1972	280,540	134,880	25,472	108,314	11,874
1973	290,512	141,651	26,633	109,809	12,419
1974	302,987	149,521	28,474	111,463	13,529
1975	316,240	158,069	31,137	112,283	14,751
1976	329,695	167,044	34,148	113,406	15,097
1977	335,411	170,554	34,869	114,618	15,370
1978	342,284	174,125	36,283	115,832	16,044
1979	352,430	177,818	38,336	119,049	17,227
1980	366,375	186,555	39,375	121,688	18,757

Source: Hawaii State Department of Taxation, Tax Research and Planning, records.

Table 117.-- ACREAGE OF LAND USE CLASSES, BY COUNTIES: JULY 25, 1980

(Based on land use classifications used for real property assessment purposes.)

Land use class 1/	State total	City and County of Honolulu	County of Maui	County of Hawaii	County of Kauai
All uses 2/	4,049,952	371,150	750,268	2,526,909	401,625
Residential	87,062	63,890	6,873	11,793	4,506
Hotel-apartment	7,659	2,618	2,131	2,045	865
Commercial	6,197	2,706	612	1,129	1,750
Industrial	16,161	8,027	1,539	6,010	585
Agricultural	1,939,803	136,111	405,807	1,199,936	197,949
Conservation	1,961,027	147,158	328,498	1,293,278	192,093
Unimproved residential .	32,046	10,640	4,809	12,719	3,878

1/ "Pitt codes" as established by the "Pittsburgh Law" of differential tax rates for real property assessment and taxation in Sec. 246-10, Hawaii Revised Statutes (1976 Replacement).

2/ Excludes public streets and highways and other areas not in parcels of record, and thus differs somewhat from the official figures based on measurements of the Geography Division of the U.S. Bureau of Census. The Bureau's data for total area (including inland water) are: State, 4,128,256 acres; Honolulu, 390,976; Maui, 751,616; Hawaii, 2,584,320; Kauai, 401,344.

Source: Hawaii State Department of Taxation, Systems and Procedures Office, records.

Table 118.— ESTIMATED ACREAGE OF LAND USE DISTRICTS: 1964 TO 1980

[Total acreage, including inland water, as classified by the Hawaii State Land Use Commission under the provisions of Chapter 205, Hawaii Revised Statutes. All data are approximate.]

Year and month	Total area 1/	Classification by State Land Use Commission 2/			
		Urban	Conservation	Agricultural	Rural
1964: August	4,111,500.0	117,800.0	1,862,600.0	2,124,400.0	6,700.0
1969: August	4,111,500.0	140,163.3	2,009,086.7	1,955,875.0	6,375.0
1974: March	4,111,500.0	147,472.0	1,986,428.9	1,968,727.2	8,871.9
1975: February	4,111,500.0	148,921.4	1,976,995.7	1,976,695.4	8,887.5
1977: January	4,111,500.0	149,262.9	1,976,995.7	1,976,327.2	8,914.2
1978: January	4,111,500.0	151,012.5	1,976,931.4	1,974,339.5	9,216.7
1979: January	4,111,500.0	151,929.6	1,976,105.9	1,974,229.8	9,234.7
1980: January	4,111,500.0	152,199.2	1,975,865.1	1,974,195.5	9,240.3

Footnotes and source follow next table.

Table 119.-- ESTIMATED ACREAGE OF LAND USE DISTRICTS, BY ISLANDS: JANUARY 1980

[See headnote of preceding table]

Island	Total area 1/	Classification by State Land Use Commission 2/			
		Urban	Conservation	Agricultural	Rural
State total	4,111,500.0	152,199.2	1,975,865.1	1,974,195.5	9,240.3
Hawaii	2,573,400.0	34,481.5	1,309,461,8	1,228,844.7	612.0
Maui	465,800.0	15,533.5	193,678.7	252,807.8	3,780.0
Kahoolawe	28,800.0	-	28,800.0	-	-
Lanai	90,500.0	2,338.5	38,202.5	47,239.0	2,720.0
Molokai	165,800.0	3,293.1	49,767.7	111,844.2	895.0
Oahu	385,300.0	86,667.5	154,896.4	143,736.1	-
Kauai	353,900.0	9,885.1	198,758.0	144,023.7	1,233.3
Niihau	45,700.0	-	-	45,700.0	-
Kaula and Lehua	400.0	-	400.0	-	-
Northwestern Haw'n Islands .	1,900.0	-	1,900.0	-	-

1/ These totals differ somewhat from the official figures based on measurements by the Geography Division of the U.S. Bureau of the Census, cited in Section 5.

2/ For definitions, see Hawaii Revised Statutes, 1976 Replacement, Section 205-2.

Source: Hawaii State Department of Planning and Economic Development, Land Use Commission, data supplied February 15, 1980.

Table 120.-- LAND OWNERSHIP, BY ISLANDS: 1968-1978

(In acres. Includes area in public thoroughfares on Hawaii but excludes it for other islands.)

Island	Survey date	All land 1/	Land owned by government 2/			Privately owned land 3/
			Federal	State	Counties	
State total ..	...	4,045,511	296,803	1,394,552	13,335	2,340,821
Percent	...	100.0	7.3	34.5	0.3	57.9
Hawaii	1971	2,516,979	200,995	985,269	839	1,329,876
Maui	1972	461,402	12,275	155,284	365	293,478
Kahoolawe	1972	28,832	28,819	13	-	-
Lanai	1972	89,071	8	169	2	88,892
Molokai	1972	168,257	1,839	39,652	2	126,764
Oahu	1978	373,216	50,634	62,073	11,008	249,501
Kauai	1972	357,977	1,977	149,276	1,119	205,605
Niihau	1972	47,217	256	256	-	46,705
Other islands 4/ ..	1968	2,560	-	2,560	-	-

1/ Because of the omission of public thoroughfares and for other reasons, totals by island may differ considerably from official area estimates in other tables in this volume.

2/ State land ceded by presidential proclamation or governor's executive order to the federal government appears in most cases to have been classified for this table as federal land, even though title to it technically remains with the state. Land ceded by the state to the counties, in contrast, has probably been classified as state land. For both types of ceded land, treatment may have varied from parcel to parcel, and no firm statement is possible.

3/ For data on the leasehold status of privately owned land, see the two following tables.

4/ Lehua, Kaula, and the Northwestern Hawaiian Islands other than Midway.

Source follows next table.

Table 121.-- PRIVATELY OWNED LAND, LEASED AND UNLEASED, BY ISLANDS: 1968-1978

(In acres.)

Island	Survey date	All private land	Not leased	Leased 1/
State total	...	2,340,821	1,872,207	468,614
Hawaii	1971	1,329,876	1,026,003	303,873
Maui	1972	293,478	255,272	38,206
Kahoolawe	1972	-	-	-
Lanai	1972	88,892	88,882	10
Molokai	1972	126,764	104,089	22,674
Oahu	1978	249,501	165,727	83,774
Kauai	1972	205,605	185,529	20,076
Niihau	1972	46,705	46,705	-
Other islands 2/	1968	-	-	-

1/ To either governmental or private lessees. For Oahu data by type of lessee, see the following table.

2/ Lehua, Kaula, and the Northwestern Hawaiian Islands (except Midway).

Source: Hawaii State Department of Planning and Economic Development, Hawaii Urban Planning Information Center, Land Inventory Report; 1972 for Hawaii County (1974, p. 19), Maui County (1974, pp. 25-26), and Kauai County (1974, pp. 25 and 29), and underlying data; Hawaii State Department of Land and Natural Resources, Report to the Governor 1973-1974, p. 54 (for Lehua, Kaula, and the N.W.H.I.); Honolulu Department of General Planning records.

Table 122.-- LAND OWNERSHIP AND CONTROL, FOR OAHU: 1978

(In acres.)

Lessee	Owner				
	All owners	Federal	State	City and County	Private
Total land ..	373,216	50,634	62,074	11,007	249,501
None	272,532	45,990	50,045	10,770	165,727
Federal	2,816	-	2,706	-	110
State	193	33	-	157	3
City and County ..	1,187	25	1,148	-	14
Private	96,488	4,586	8,175	80	83,647

Source: City and County of Honolulu, Department of General Planning, records.

Table 123.-- REAL PROPERTY OWNED OR LEASED BY THE FEDERAL GOVERNMENT: 1968 TO 1978

Subject	June 30, 1968	June 30, 1973	Sept. 30, 1977	Sept. 30, 1978 1/
OWNED				
Number of installations	142	186	271	284
Land area, total (acres)	397,278.9	417,015.0	407,904.3	402,938.6
Urban	55,233.4	11,914.0	54,810.1	(NA)
Rural	342,045.5	405,101.0	353,094.2	(NA)
Number of buildings	11,590	12,815	14,512	14,610
Cost, total ($1,000) 2/	1,051,246	1,196,010	1,438,050	1,448,743
Land	25,374	48,567	52,152	52,150
Buildings	514,262	594,106	772,361	786,375
Structures and facilities	511,610	553,337	613,537	610,218
Predominant usage (acres):				
Agriculture and grazing	-	-	-	-
Forest and wildlife	1,767.4	2,899.5	3,106.4	3,108.6
Parks and historic sites	218,318.0	238,401.6	228,898.9	228,898.9
Power development and distribution	-	-	-	-
Reclamation and irrigation	-	-	-	-
Office building locations	19.8	33.0	52.3	50.5
Military, excluding airfields 3/ .	175,240.5	121,353.1	163,835.7	163,439.8
Airfields		35,685.7	3,738.0	3,738.0
Harbor and port facilities	35.1	27.4	156.6	23.6
Flood control and navigation	886.7	715.0	1,480.8	1,480.8
Vacant	13.1	14.6	1.5	1.5
Institutional	1.5	1.5	359.5	359.5
Housing	66.8	81.4	84.5	85.1
Storage	21.8	5.8	529.8	139.2
Industrial	48.6	17,166.1	5,179.7	1,132.5
Research and development	5.2	11.0	6.2	6.2
Other land	854.4	619.3	474.4	474.4
LEASED				
Number of leases	244	255	226	229
Land area, total (acres)	29,589.2	48,778.2	47,262.0	48,542.9
Urban	27.0	37.8	147.0	147.2
Rural	29,562.2	48,740.4	47,115.0	48,395.7
Number of building locations	159	174	157	153
Floor area of buildings (sq. ft.) ..	435,074	607,264	352,876	307,246
Annual rental ($1,000)	1,426.8	3,094.0	1,346	1,414

Footnotes and source on next page.

Table 123.-- REAL PROPERTY OWNED OR LEASED BY THE FEDERAL GOVERNMENT: 1968 TO 1978 -- Con.

NA Not available.

1/ Corrected from published data, which overstated Navy acreage and the State total by 195,359.7 acres.

2/ At time of acquisition; includes estimated equivalent cost of properties acquired through donation, exchange, devise, forfeiture, or judicial process.

3/ Data for 1968 and 1973 include all Department of Defense land used for military functions.

Source: General Services Administration, Summary Report on Real Property Owned by the United States Throughout the World (annual) and Summary Report of Real Property Leased to the United States Throughout the World (annual), as corrected February 26, 1980.

Table 124.-- DEPARTMENT OF HAWAIIAN HOME LANDS ACREAGE, LESSEES, AND APPLICANTS, BY ISLANDS: JUNE 30, 1979

(The Department of Hawaiian Home Lands administers land set aside for the benefit of qualified native Hawaiians, who receive homestead leases and financial assistance from the Department.)

Island	Acreage	Lessees		Applicant list	
		Total awards	Residential only	Total	Residential
State total ..	190,000	2,996	2,583	6,310	5,642
Hawaii	111,000	700	553	1,246	801
Maui	29,000	89	89	419	391
Molokai	27,000	378	116	312	215
Oahu	5,000	1,639	1,638	3,931	3,923
Kauai	18,000	190	187	402	312

Source: Annual Report, Department of Hawaiian Home Lands, 1978-79, pp. 9, 10, and 12.

Table 125.-- ACRES OWNED IN FEE BY SELECTED MAJOR LANDOWNERS: 1964 AND 1979

Landowner	1964	1979
Bernice P. Bishop Estate	369,700	341,749
Richard S. Smart (Parker Ranch)	185,610	1/ 117,314
Castle & Cooke, Inc.	154,759	2/ 150,370
C. Brewer & Company, Ltd.	145,147	98,520
Samuel M. Damon Estate	143,842	122,969
Alexander & Baldwin, Inc.	122,788	95,400

1/ This 1978 estimate is the latest available, but the Parker Ranch office warns that it is subject to large errors. An accurate accounting is currently being done.

2/ As of March 1980, but figure does not differ significantly from the 1979 figure.

Source: State Legislative Reference Bureau, Public Land Policy in Hawaii: Major Landowners, Report No. 3 (1967), p. 17; data for 1979 and 1980 supplied by landowners listed.

Section 7

RECREATION AND TOURISM

Statistics on tourism, recreation, cultural activities, and parks appear in this section. Information on recreational land use is given in Section 6; on transportation, in Section 18; on hotels, in Section 23.

Tourism has shown impressive growth in recent decades. Approximately 3,961,000 visitors stayed overnight or longer in Hawaii during 1979, compared with 1,527,000 in 1969 and only 243,000 in 1959. The average number present at any given time during 1979 was 105,000, almost three times the 1969 average. Total visitor expenditures (exclusive of trans-Pacific fares) in 1979 amounted to $2.6 billion, compared with $550 million a decade earlier. The 1979 visitor total included 2.6 million from other States, 300,000 from Canada, and 580,000 from Japan. Expenditures per visitor day in 1977 averaged $54.62 for westbound visitors and $146.85 for the Japanese. Visitor spending in 1978 resulted in tax revenues of $235 million and generated 108,000 jobs, either directly, indirectly, or induced.

Both visitors and residents have access to a wide range of recreational and cultural facilities. The State has five national parks, 65 State parks, 595 County parks, 39 civilian golf courses, 242 public tennis courts, 2,018 small-boat moorages, 1,600 recognized surfing sites, and 24.4 miles of safe, sandy, accessible beach. Recreational and cultural facilities reporting more than a million annual visitors include seven National or State parks, the National Memorial Cemetery of the Pacific, U.S.S. Arizona Memorial, the Honolulu Zoo, and Polynesian Cultural Center. Total visits to 32 museums, state monuments and similar attractions in 1979 numbered 10.6 million. Over 130,000 Hawaii residents traveled to the Mainland in 1979 and half of them were absent more than 11.7 days. Eleven theatrical groups on Oahu reported 850 performances of 114 productions for the 1978-1979 season, with a combined audience of 312,000. During the same period, the Honolulu Symphony Orchestra gave 118 concerts, with a total attendance of 192,000. Professional baseball drew 176,000 fans in 1979, and during the 1979-1980 school year, attendance at UH-Manoa varsity baseball, basketball and football home games exceeded 431,000. Approximately 85,000 dogs and 66,000 cats were owned in 1970.

Information on recreation and tourism is issued periodically by the Hawaii Visitors Bureau (chiefly in its monthly and annual research reports), the State Parks Division of the Department of Land and Natural Resources, the U.S. National Park Service, U.S. Passport Office, County park and recreation departments, and other organizations. An extensive compilation of statistics on recreational facilities and behavior was issued by DPED in December 1975 in its State Comprehensive Outdoor Recreation Plan Technical Report. Long-term trends are summarized in Historical Statistics of Hawaii, Section 11. National statistics are given in Section 8 of Statistical Abstract of the United States: 1979.

Table 126.-- MODE AND DIRECTION OF TRAVEL OF PASSENGERS ARRIVING IN HAWAII: 1969 TO 1979

Year	All arriving passengers	Mode of travel		Direction of travel	
		Air	Surface	Westbound	Eastbound or northbound
1969	1,941,638	1,876,821	64,817	1,566,013	375,625
1970	2,219,559	2,174,303	45,256	1,734,560	484,999
1971	2,500,462	2,455,147	45,315	1,903,130	597,332
1972	3,053,557	3,013,488	40,069	2,308,712	744,845
1973	3,624,667	3,598,312	26,355	2,696,415	928,252
1974	3,882,957	3,861,208	21,749	2,802,465	1,080,492
1975	3,849,525	3,832,790	16,735	2,806,524	1,043,001
1976	4,340,442	4,324,029	16,413	3,205,779	1,134,663
1977	4,544,802	4,530,817	13,985	3,434,979	1,109,823
1978	4,784,561	4,776,977	7,584	3,664,351	1,120,210
1979	5,291,333	5,283,771	7,562	3,839,041	1,452,292

Source: Hawaii Visitors Bureau, 1978 Annual Research Report, p. 5, and records.

Table 127.-- RESIDENCE STATUS OF WESTBOUND PASSENGERS ARRIVING IN HAWAII: 1969 TO 1979

Year	All westbound passengers	Visitors destined to Hawaii	Visitors destined beyond Hawaii		Returning residents	Intended residents	Unclassified
			Overnight or longer	Transits			
1969	1,566,013	1,008,802	172,227	190,710	152,404	41,162	708
1970	1,734,560	1,127,950	198,185	193,798	173,252	40,073	1,302
1971	1,903,130	1,207,898	222,457	268,001	162,967	41,562	245
1972	2,308,712	1,540,268	242,469	309,595	171,772	44,388	220
1973 ...	2,696,415	1,815,443	252,418	396,508	194,974	36,886	186
1974	2,802,465	1,899,632	284,988	426,507	154,154	37,007	177
1975	2,806,524	1,935,396	272,021	381,419	178,040	39,233	415
1976	3,205,779	2,245,252	306,349	426,666	186,684	40,690	138
1977	3,434,979	2,453,541	309,771	448,521	179,298	43,617	231
1978 1/ .	3,664,351	2,698,831	332,168	436,942	156,901	39,476	33
1979 1/ .	3,839,041	2,805,813	333,642	546,113	130,914	22,559	-

1/ Decline in returning and intended residents probably reflects increased nonresponse rates resulting from revised questionnaire format used from July 1978 to July 1979.

Source: Hawaii Visitors Bureau, 1978 Annual Research Report, p. 7, and records.

Table 128.-- VISITOR ARRIVALS, AVERAGE VISITOR CENSUS, AND VISITOR EXPENDITURES: 1964 TO 1979

Year	Visitors staying overnight or longer			Average number present		Visitor expenditures 1/ (millions of dollars)
	Total	West-bound 2/	Other	Total	West-bound 2/	
1964	563,925	460,290	103,635	16,354	15,218	205
1965	686,928	567,218	119,710	17,991	16,679	225
1966	835,456	686,886	148,570	21,572	19,925	280
1967	1,124,818	893,103	231,715	28,202	25,470	380
1968	1,314,571	1,015,844	298,727	33,288	29,737	440
1969	1,527,012	1,181,029	345,983	38,078	33,968	550
1970	1,746,970	1,326,135	420,835	37,631	32,716	595
1971	1,818,944	1,430,325	388,619	41,909	37,524	705
1972	2,244,377	1,782,737	461,640	51,270	46,225	840
1973	2,630,952	2,067,861	563,091	61,633	55,462	1,020
1974	2,786,489	2,184,620	601,869	65,991	59,395	1,225
1975	2,829,105	2,207,417	621,688	68,837	62,024	1,360
1976	3,220,151	2,551,601	668,550	78,540	71,233	1,640
1977	3,433,667	2,763,312	670,355	86,788	79,442	1,845
1978	3,670,309	3,030,999	639,310	96,001	88,995	2,188
1979	3,960,531	3,139,455	821,076	104,640	95,642	2,620

1/ Excludes expenditures for trans-Pacific transportation.

2/ Arriving from the Mainland United States or Canada.

Source: Hawaii Visitors Bureau, Annual Research Report (annual) and records.

Table 129.-- RESIDENCE OF OVERNIGHT AND LONGER VISITORS TO HAWAII: 1974 TO 1979

(In thousands)

Place of residence	1974	1977	1978	1979 1/
Total	2,790	3,435	3,670	3,960
United States	1,988	2,360	2,500	2,610
Canada	175	300	315	300
Japan	400	440	470	580
Australia and So. Pacific	120	165	180	220
Asia, exc. Japan	50	90	110	145
Europe	40	60	75	90
Latin America and Caribbean	15	18	18	13
Africa	2	2	2	2

1/ Preliminary.

Source: Hawaii Visitors Bureau, records.

Table 130.-- VISITOR ARRIVALS AND AVERAGE VISITOR CENSUS, BY COUNTIES: 1969 TO 1979

Year	Westbound visitor arrivals 1/			Average visitor census, including eastbound and northbound 2/			
	Hawaii County	Kauai County	Maui County	City and Co. of Honolulu	Hawaii County	Kauai County	Maui County
1969 ...	410,967	363,759	396,145	28,248	3,626	2,731	3,473
1970 ...	445,401	410,075	447,985	27,387	3,588	3,011	3,645
1971 ...	522,166	472,663	554,799	29,343	4,349	3,535	4,682
1972 ...	637,562	565,386	710,050	35,834	5,153	4,136	6,147
1973 ...	694,170	590,475	766,791	45,396	5,477	4,206	6,554
1974 ...	742,839	601,703	852,201	47,942	6,024	4,484	7,541
1975 ...	769,779	632,821	931,863	48,669	6,496	4,941	8,731
1976 ...	816,514	699,275	1,110,726	55,691	6,782	5,445	10,622
1977 ...	839,008	740,501	1,257,142	61,100	7,195	6,025	12,468
1978 ...	908,983	837,712	1,403,054	66,346	8,094	7,069	14,492
1979 ...	860,940	825,366	1,419,773	73,419	7,996	7,394	15,831

1/ Because many visitors visit more than one island, county data sum to total greater than the State total shown in the preceding table. Data cover westbound visitors destined to or beyond Hawaii, and include one-day (non-overnight) Neighbor Island visits by these passengers. Not separately available for the City and County of Honolulu.

2/ For State totals, see preceding table.

Source: Hawaii Visitors Bureau, Annual Research Report (annual) and records.

Table 131.-- SUMMARY CHARACTERISTICS OF WESTBOUND VISITORS TO HAWAII: 1970 TO 1979

Year	Residence 1/ (percent)		Males per 1,000 females	Median age (years)	High status occupations 2/ (percent)	Persons per party
	Western states 7/	California				
1970	47.7	33.4	663	40.7	49.6	1.55
1971	46.8	32.0	741	42.6	54.0	1.61
1972	42.5	27.7	801	44.7	58.9	1.71
1973	39.4	25.5	762	44.0	56.4	1.69
1974	38.2	24.4	788	44.1	59.3	1.72
1975	39.7	24.8	810	44.5	60.4	1.75
1976	37.9	24.0	787	44.8	58.4	1.75
1977	40.2	25.8	802	43.2	58.8	1.78
1978	41.3	26.0	810	42.9	59.8	1.81
1979	43.1	25.7	823	41.7	60.1	1.80

Year	Arriving June 1- Aug. 31 (percent)	Repeat visitors 3/ (percent)	Pleasure trip (percent)	Staying in hotel 4/ (percent)	Average intended stay 5/ (days)	Intending to visit Neighbor Islands 6/ (percent)
1970	33.1	32.8	74.8	84.0	10.9	54.8
1971	30.8	36.4	76.0	84.9	11.0	60.6
1972	29.2	35.1	77.4	89.0	10.9	61.5
1973	30.2	34.3	78.3	89.3	10.7	58.8
1974	28.6	37.3	78.2	91.4	10.7	62.0
1975	28.6	39.7	76.4	91.7	10.8	66.0
1976	28.3	38.7	79.0	93.4	10.7	65.6
1977	27.3	41.1	78.6	89.8	10.9	66.8
1978	26.7	42.8	76.5	83.0	11.2	68.2
1979	27.0	44.1	76.7	74.4	11.2	68.5

1/ Base includes estimated number of visitors arriving directly from Canada and usually omitted from the Hawaii Visitors Bureau Basic Data Survey.

2/ Party heads only. Calculated as the number of professional, technical, business, managerial and official workers as a percent of all party heads responding to this question.

3/ Party heads only.

4/ Includes condominiums operating as hotels through June 1978 but excludes such facilities thereafter.

5/ Computed from total visitor days and total visitor arrivals for westbound visitors destined for Hawaii. These data differ somewhat from corresponding data in the source, because of different computation procedures.

6/ Base includes passengers who did not answer this question.

7/ Pacific and Mountain States.

Source: Hawaii Visitors Bureau, Annual Research Report (annual) and records.

Table 132.-- CHARACTERISTICS OF WESTBOUND VISITORS TO AND BEYOND HAWAII: 1979

Subject	Visitors to Hawaii	Visitors beyond Hawaii
All visitors	2,805,813	879,755
Age:		
Under 10 years	75,350	54,164
10 to 19 years	213,114	51,504
20 to 29 years	474,277	190,642
30 to 39 years	506,258	191,754
40 to 49 years	498,746	120,184
50 to 59 years	544,193	99,650
60 years and over	395,008	73,825
Age not reported	98,867	98,032
Sex:		
Male	1,266,476	516,680
Female	1,539,337	363,075
Intended length of stay:		
1 day 1/	232,289	546,113
2 days		43,833
3 days		84,963
4 to 6 days		142,135
7 to 12 days	1,677,867	49,084
13 to 18 days	715,308	13,627
19 to 24 days	111,051	
25 to 30 days	39,745	
31 to 60 days	27,939	
61 to 90 days	883	
91 to 365 days	731	
Residence: 2/		
Pacific	991,471	144,866
Alaska	21,855	4,366
California	684,363	92,265
Oregon	94,083	11,839
Washington	191,170	36,396
Mountain	157,721	20,084
West North Central	176,650	15,168
West South Central	151,852	25,343
East North Central	335,511	19,688
East South Central	49,703	6,588
New England	77,020	4,913
Middle Atlantic	235,100	23,314
South Atlantic	154,749	27,477
Guam, Puerto Rico, Virgin Isl.	350	42,862
Canada	297,500	32,635
Other foreign	38,448	468,217
Residence not reported	139,738	48,600

Continued on next page.

Table 132.-- CHARACTERISTICS OF WESTBOUND VISITORS TO AND BEYOND HAWAII: 1979 -- Con.

Subject	Visitors to Hawaii	Visitors beyond Hawaii
Purpose of trip:		
Pleasure	2,133,140	383,851
Business	79,337	88,381
Business and pleasure	338,549	68,470
Government and military	13,699	87,444
Visiting relatives	130,181	25,407
Attend school	2,187	959
Convention	74,019	15,592
Other	10,837	84,893
Purpose not reported	23,864	124,758
Intended accommodations:		
Hotel or apartment-hotel	2,059,127	287,042
Condominium	380,492	8,738
Friend's or relative's home	280,874	21,996
Other accommodations	46,207	7,124
Intransits	-	546,113
Not reported	39,113	8,742
Destination:		
Hawaii	2,805,813	-
Around the world	-	21,799
Australia	-	225,569
New Zealand	-	69,528
Other Pacific	-	152,268
Japan	-	197,148
Hong Kong	-	28,227
Philippines	-	81,607
Other Asia	-	103,609
Visitor days (1,000)	31,524	2,236

1/ Includes visitors beyond Hawaii who were in transit and did not report their intended length of stay.

2/ Census divisions. For composition, see source, table 12.

Source: Hawaii Visitors Bureau, 1979 Annual Research Report.

Table 133.-- CHARACTERISTICS OF WESTBOUND VISITOR PARTY HEADS TO AND BEYOND HAWAII: 1979

Subject	Visitors to Hawaii	Visitors beyond Hawaii
All party heads	1,563,117	612,079
Occupation:		
Professional and technical ...	526,008	176,961
Business, managerial, official	397,410	134,854
Clerical, office, sales	150,272	44,861
Military service	15,280	64,625
Other employed	135,225	30,961
Military dependent	2,067	5,033
Retired	180,411	45,033
Student	75,985	40,808
Other non-employed	54,541	25,965
Not reported	25,918	42,978
Trips to Hawaii:		
First trip	814,049	191,154
Second trip	264,128	96,087
Third trip	120,174	41,800
Fourth trip and over	259,300	106,388
Not reported	105,466	176,650
Persons per party	1.80	1.44

Source: Hawaii Visitors Bureau, 1979 Annual Research Report.

Table 134.-- TRAVEL BY U.S. RESIDENTS TO AND THROUGH HAWAII: 1977

[In thousands. This table refers to nonlocal travel by the civilian noninstitutional population of the United States during 1977. Nonlocal travel was defined as any trip extending 100 miles or more from origin to destination. Specifically excluded from the survey was (1) travel taken as part of an operating crew on a plane, ship, bus, or truck, (2) travel by students between home and school, and (3) travel by the armed forces while on active duty. Travel by military dependents was included, however. Based on a nationwide sample of approximately 25,000 households. For standard errors, see source, table F4, p. xv.]

Subject	All trips 1/	Trips originated-- In Hawaii 1/	Trips originated-- In other states 2/
Travel to and through Hawaii:			
Households taking trips	1,042	(NA)	(NA)
Persons taking trips	1,849	127	(NA)
Household trips	1,232	178	1,054
Person trips	2,051	243	1,808
Person nights spent in Hawaii	22,035	921	21,114
Trips to destinations in Hawaii:			
Persons taking trips	1,774	127	(NA)
Household trips	1,175	178	997
Person trips	1,977	243	1,734
Person nights spent in Hawaii	21,649	921	20,728
Trips to destinations in other States or outside the U.S.:			
Household trips	56	-	56
Person trips	74	-	74
Person nights spent in Hawaii	385	-	385

NA Not available.

1/ The sample for Hawaii was limited to Oahu residents; consequently, the data on trips originated in Hawaii include interisland travel by Oahu residents but generally exclude interisland travel by Neighbor Island residents. Moreover, the survey excluded travel under 100 miles from home to destination, and thus excluded any trips by Oahuans to Molokai (54 miles, airport to airport) or Lanai (72 miles) where ground travel did not bring the total mileage up to the cut-off point.

2/ Person trips by Mainland residents destined for Hawaii in 1977, reported as 1,734,000 by this survey, were estimated at 2,046,566 by the Hawaii Visitors Bureau (1977 Annual Research Report, table 12).

Source follows next table.

Table 135.-- CHARACTERISTICS OF TRAVEL BY U.S. RESIDENTS TO AND THROUGH HAWAII: 1977

[See headnote to preceding table]

Trip or traveler characteristics	Households taking trips	Persons taking trips	Household trips	Person trips	Person nights
Total	1,042	1,849	1,232	2,051	22,035
Trip characteristics					
Main purpose of trip (1,000):					
Visit relatives or friends	...	...	178	329	5,549
Business	...	...	147	189	1,258
Outdoor recreation	...	...	114	204	2,556
Entertainment	...	...	175	327	3,062
Sightseeing	...	...	377	649	6,555
On vacation trip (1,000)	...	...	1,014	1,795	20,356
Mean round trip mileage 1/	...	...	6,914	7,013	7,468
Mean duration of trip 2/ (nights) ..	...	...	12.9	12.8	...
Originated in Far West 3/ (1,000) ..	...	...	628	1,052	11,416
Mean number of persons on trip	...	...	1.6	2.0	2.1
Traveler characteristics					
Median family income (dollars)	19,243	20,398	19,637	20,422	16,641
Occupation of household head (1,000):					
White-collar workers	525	975	675	1,144	10,429
Not in labor force or unemployed .	288	464	302	477	6,368
Race: Nonwhite 4/ (1,000)	80	173	102	210	2,590
Mean age 4/ (years)	48.8	41.0	46.2	40.2	39.3
Education: College 4/ (1,000)......	524	796	699	909	8,737
Sex: Female 4/ (1,000)	239	974	266	1,063	11,658
Residence: Not in an SMSA (1,000) .	265	409	263	424	4,981
Mean household size (persons)	2.5	2.9	2.7	2.9	3.0

1/ Trips to destinations in Hawaii only.
2/ Includes total nights spent on trip, not just nights in Hawaii.
3/ Alaska, California, Hawaii, Idaho, Nevada, Oregon, and Washington State.
4/ For household trips and households taking trips columns, information shown is that of household head.

Source: U.S. Bureau of the Census, 1977 Census of Transportation, National Travel Survey, Travel During 1977, TC77-N-2 (October 1979), pp. 232-234, and unpublished data supplied February 6, 1980.

Table 136.-- CHARACTERISTICS OF WESTBOUND VISITORS TO HAWAII STAYING IN CONDOMINIUMS: 1979

Characteristic	Westbound visitors 1/	
	Total	Using condos
Number of visitors	2,805,813	380,492
Percent of total	100.0	13.6
Average stay, all islands (days)	10.9	12.9
On Oahu	5.8	5.7
On Hawaii	3.4	4.9
On Kauai	3.3	4.9
On Maui	4.0	6.7
Median stay, all islands (days)	10.7	11.7
Persons per party	1.79	2.03

1/ Excludes visitors destined beyond Hawaii. Also excludes visitors arriving on Canadian airlines.

Source: Hawaii Visitors Bureau, Profile: The Resort Condominium Market 1979 (July 1980).

Table 137.-- OVERSEAS VISITORS TRAVELING TO OR THROUGH HONOLULU: 1976

(An overseas visitor is a person, other than a Canadian or Mexican, who travels to the United States using a business, pleasure, students, or transit visa.)

Class of overseas visitor	Number (thousands)	Region of origin (percent)			Median age (years)	Median stay 1/ (days)
		Asia	Oceania	Other		
All overseas visitors 2/	866	...	...	...	...	...
Entering through Honolulu	630	72	23	5	32	5
Listing Honolulu as point of contact	480	82	12	6	31	4
Departing through Honolulu	795	77	16	7	33	6

1/ In U.S.

2/ Overseas visitors to the United States who entered the U.S. through Honolulu, listed an address in Honolulu as the place where they could be contacted while visiting the U.S., and/or departed the U.S. through Honolulu.

Source: U.S. Department of Commerce, United States Travel Service, 1976 Patterns of Foreign Travel in the United States, Summary (December 1978), pp. 22 and 24, and Honolulu (pamphlet, December 1978), unpaged.

Table 138.-- FAMILY INCOME, TRIP CHARACTERISTICS, AND OPINIONS OF VISITORS TO HAWAII: 1976 TO 1979

Subject	1976	1977	1978	1979
Number of respondents in sample	5,482	5,462	5,303	5,352
Family income before taxes (percent)	100.0	100.0	100.0	100.0
Under $10,000	8.9	6.3	5.8	4.0
$10,000 to $14,999	16.8	12.7	10.8	10.0
$15,000 to $24,999	35.5	30.6	26.8	23.5
$25,000 to $34,999	38.8	50.4	25.6	26.2
$35,000 to $49,999			17.0	19.2
$50,000 and over			14.2	17.1
Median income (dollars)	21,800	25,000+	27,600	29,770
Using travel agent (percent)	82.9	81.0	83.5	84.1
Islands visited (percent):				
Oahu only	30.1	27.0	24.9	24.6
Hawaii	40.0	35.8	36.5	34.3
Maui	53.2	56.7	56.0	56.8
Kauai	39.3	37.6	37.7	35.9
Molokai 1/	...	...	0.5	0.6
Hawaii compared with other vacation areas visited (percent)	100.0	100.0	100.0	100.0
Far superior	38.6	39.0	39.2	35.2
Above average	51.0	50.7	50.5	53.7
Average	9.2	9.2	9.4	9.9
Below average	1.0	1.0	0.8	1.1
Quite inferior	0.2	0.1	0.1	0.1

1/ Combined with Maui before 1978.

Source: Hawaii Visitors Bureau, Visitor Reaction Survey (annual summaries).

Table 139.-- VISITOR EXPENDITURES PER VISITOR DAY, BY VISITOR ORIGIN: 1974 AND 1977

[In dollars. Excludes transpacific travel costs.]

Subject	Westbound visitors 1/		Visitors from Japan	
	1974	1977	1974	1977
Total expenditure	46.20	54.62	123	146.85
By type of expenditure:				
Food and beverages	13.12	14.64	...	27.04
Restaurant 2/	10.66	12.04	...	23.10
Nightclub	1.12	1.14	...	3.94
Groceries	1.34	1.46	...	...
Entertainment	2.12	2.61	...	12.41
Attractions	1.58	2.07	...	...
Other entertainment	0.54	0.54	...	...
Transportation	5.16	6.27	...	21.14
Ground transportation 3/	2.55	1.21	...	3.94
U-drive		1.80	...	...
Interisland travel	1.26	2.00	...	17.20
Sightseeing tours	1.35	1.26	...	...
Clothing	4.96	4.98	...	8.37
Gifts and souvenirs	4.46	5.23	41	51.40
Lodging	13.34	17.37	...	16.80
All others	2.22	2.69	...	9.69
Unclassified	0.82	0.83	...	...
By place of expenditure:				
Oahu	46.75	54.17	...	...
Other islands	45.16	49.97	...	...
By travel status:				
In organized tour groups .	52.06	60.04	...	...
Individual visitors	42.91	51.64	...	...
Sample size (number of parties	1,669	1,582	190	638

1/ Mostly residents of the Mainland United States, but also including some residents of Australia, Asia, and the South Pacific returning home from trips to the Mainland United States.

2/ Figure for 1977 visitors from Japan refers to total expenditures for food.

3/ Figure for 1977 visitors from Japan refers to total transportation expenditures excluding interisland travel.

Source: Hawaii Visitors Bureau, 1974 Visitor Expenditure Survey (July 1975), pp. 4-6; 1977 Visitor Expenditure Survey (July 1978), pp. 4-6 and 32; and records.

Table 140.-- ESTIMATED EXPENDITURES BY VISITORS TO HAWAII, BY COUNTIES: 1969 TO 1979

(In millions of dollars. Excludes expenditures by Hawaii residents.)

Year	State total	City and County of Honolulu 1/	Other counties 1/			
			Total	Hawaii	Kauai	Maui
1969	550	413	137.5	50.4	38.3	48.8
1970	595	442	153.0	53.4	45.1	54.5
1971	705	507	198.0	67.7	56.1	74.2
1972	840	609	231.0	77.0	61.9	92.1
1973	1,020	777	243.0	81.9	63.2	97.9
1974	1,225	928	297.5	99.3	73.9	124.3
1975	1,360	1,004	355.9	114.6	87.2	154.1
1976	1,640	1,213	427.2	126.8	101.8	198.6
1977	1,845	1,377	468.5	131.2	109.9	227.4
1978	2,188	1,609	579.0	158.0	138.0	283.0
1979	2,620	1,948	672.3	172.2	159.2	340.9

1/ Interisland air fares have been distributed on a prorata basis. Expenditures by eastbound visitors have been included with Oahu.

Source: Hawaii Visitors Bureau, Neighbor Island Statistics (table, April 17, 1980).

Table 141.-- ECONOMIC ACTIVITY GENERATED BY VISITOR EXPENDITURES: 1968 TO 1978

(In millions of dollars and thousands of jobs.)

Year	Visitor expenditures	Total sales or output 1/	Household income	Tax revenues	Jobs 2/
1968	440	883.7	292.7	40.0	44.7
1969	550	1,104.6	366.1	51.9	52.4
1970	595	1,195.9	395.9	55.8	54.3
1971	705	1,415.9	469.1	67.4	61.9
1972	840	1,687.1	558.9	79.8	70.6
1973	1,020	2,048.6	678.7	100.1	79.4
1974	1,225	2,460.3	815.1	120.7	84.2
1975	1,360	2,731.1	904.9	144.9	85.3
1976	1,640	3,293.8	1,091.3	175.7	94.3
1977	1,845	3,705.5	1,227.7	193.8	98.6
1978	2,188	4,394.4	1,455.9	234.8	107.7

Footnotes and source follow next table.

Table 142.-- ECONOMIC ACTIVITY GENERATED BY VISITOR EXPENDITURES, BY INDUSTRY: 1978

(In millions of dollars and thousands of jobs.)

Industry or sector	Total visitor expenditures	Total sales or output 1/	Total household income	Jobs	
				Total 2/	Direct only
All industries 3/	2,188	4,394	1,456	107.7	71.5
Transportation	234	596	210	11.9	7.8
Communications	39	92	32	1.6	1.0
Eating and drinking places ..	364	804	233	22.2	15.9
Other retail trade 4/	112	269	93	7.1	5.3
Hotels	621	1,487	450	34.5	22.1
Health and prof. services ...	30	69	23	1.2	0.7
Other services	277	668	224	21.6	15.5
Textile and apparel mfg.	66	180	55	3.8	2.2
Other manufacturing	76	162	48	1.9	0.9
Households	64	68	89	1.8	-

1/ Direct, indirect, and induced sales.

2/ Direct, indirect, and induced jobs.

3/ Detail may not add to indicated total, because of definitional differences.

4/ Expenditure figure refers to income earned and not to the value of sales.

Source: Hawaii State Department of Planning and Economic Development, Tourism and Hawaii's Economy: An Input-Output Analysis (Hawaii Economic Research Reports, April 1980).

Table 143.-- ILLUSTRATIVE PROJECTIONS OF TOURISM: 1985 TO 2000

(Consistent with Series II-F population projections. For assumptions and methodology, see source.)

Year	Visitor arrivals (1,000)	Average visitor census (1,000)	Visitor expenditures 1/	Hotel rooms 2/ (1,000)			Hotel employment (1,000)
				State total	Oahu	Other islands	
1985	5,286	122.7	2,670	66.1	36.4	29.8	34.0
1990	6,432	149.3	3,248	78.1	39.0	39.0	39.3
1995	7,456	173.0	3,766	89.1	41.9	47.2	43.4
2000	7,836	181.8	4,158	93.8	42.2	51.6	45.7

1/ In millions of constant (1975) dollars.

2/ Projections based on average occupancy rates of 80 percent on Oahu and 70 percent on other islands.

Source: Hawaii State Department of Planning and Economic Development, *Long-Range Population and Economic Simulations and Projections for the State of Hawaii* (March 1, 1978), pp. 39, 40, and 77.

Table 144.-- MEETINGS AND CONVENTIONS: 1978 AND 1979

Year	No. of meetings held	Estimated attendance	Estimated guest rooms	Estimated revenue ($1,000)
1978	536	230,273	106,963	113,135
1979	545	181,871	91,355	98,320

Source: Hawaii Visitors Bureau, Meetings & Conventions Department.

Table 145.-- HAWAII VISITORS BUREAU INCOME AND EXPENDITURES: 1969 TO 1981

(In dollars.)

Year ending June 30	Income				Expenditures
	Total	State appropriations 1/	Private subscriptions	Other 2/	
1969	2,350,549	1,447,903	464,784	437,862	2,070,067
1970	2,081,517	1,536,737	523,333	21,447	2,037,931
1971	2,224,835	1,669,282	524,165	31,388	2,224,755
1972	2,247,494	1,689,261	535,918	22,315	2,245,724
1973	2,280,231	1,687,908	568,817	23,506	2,243,808
1974	2,289,946	1,692,963	557,706	39,277	2,259,602
1975	2,272,313	1,687,696	554,424	30,193	2,291,405
1976	2,466,570	1,798,452	629,418	38,700	2,473,050
1977	2,743,622	1,912,238	663,289	168,095	2,743,610
1978	2,908,365	1,975,360	735,962	197,043	2,902,134
1979	3,071,748	2,062,036	790,033	219,679	3,003,599
1980	(NA)	2,081,460	(NA)	(NA)	(NA)
1981	(NA)	2,054,696	(NA)	(NA)	(NA)

NA Not available.

1/ Data for 1969-1979 are net after any refunds to the State. Data for 1980 and 1981 are total amounts appropriated, before any refunds.

2/ May include income from mainland promotional programs, literature sales, convention servicing, and interest.

Source: Hawaii Visitors Bureau, Financial Statements and Schedules (annual), and records.

Table 146.-- PASSPORTS ISSUED, BY FIRST AREA DESTINATION: 1977 TO 1979

Passport category and first area destination	1977	1978	1979
Issued by Honolulu Passport Agency 1/	28,355	28,533	28,974
Issued to Hawaii residents, total 2/	27,020	28,280	26,170
Europe	6,770	11,280	8,470
Mid East	380	330	260
Far East	12,320	9,980	9,580
North, Central, and South America	850	1,030	820
Africa	120	200	60
Australia and Oceania	6,580	5,460	6,980
World tour	-	-	-

1/ Includes passports issued to persons not residing in Hawaii.
2/ Includes passports issued by offices not in Hawaii.
Source: U.S. Department of State, Bureau of Consular Affairs, Summary of Passport Statistics (January 1980) and information supplied May 9, 1980.

Table 147.-- CHARACTERISTICS OF RESIDENTS RETURNING FROM THE MAINLAND: 1961 TO 1979

Subject	1961 1/	1967	1972	1977	1979 2/
Number returning	41,450	130,995	171,772	179,298	130,914
Oahu residents (percent) 3/	86.0	88.0	87.2	84.9	84.5
Median age (years)	32.9	...	...	...	36.7
Males per 100 females	125.9	...	...	...	103.2
Persons per party	1.35	1.24	1.36	1.39	1.40
High-status occupations: 4/					
Percent of all party heads	44.9	...	...	...	50.9
Percent of civilian workers	72.2	...	...	...	75.6
Days absent: Median 5/	23.7	18.4	13.8	13.5	11.7
Average 5/	49.6	45.9	25.3	20.6	18.1
Average number absent 5/	5,200	14,800	11,900	10,100	6,500

1/ Year ended June 30.

2/ Data on number returning and average number absent appear to be greatly understated.

3/ Data for 1967, 1972, and 1979 exclude persons specifying military bases rather than island of residence. If these respondents are allocated to Oahu, the Oahu percentage for 1979 is 85.0.

4/ Party heads reporting professional, technical, business, managerial, and official occupations.

5/ For persons absent 1 to 365 days.

Source: Hawaii State Department of Planning and Economic Development, Out-of-State Travel by Hawaii Residents During 1979 (Statistical Report 137, May 2, 1980), table 2.

Table 148.-- AREAS VISITED BY HAWAII RESIDENTS TRAVELING OUT OF THE STATE: 1979

(Data obtained from a telephone survey of 500 adults, 18 years old and over, living in regular housing units. Coverage excludes persons under 18 and all occupants of institutions and military barracks.)

Destination area	Percent of all residents visiting this area in 1979	Percent of all 1979 vacation travelers visiting this area at least once 1/	Percent of all 1979 vacation trips including visit to this area 1/
California	21.2	60.2	45.9
Nevada	12.0	34.1	28.5
Alaska	0.4	1.1	0.8
Pacific Northwest	3.8	10.8	8.5
Southwest States	1.0	2.8	2.0
Rocky Mountain States	2.0	5.7	4.5
Central States	3.8	10.8	9.8
Southern States	3.2	9.1	8.5
Eastern States	4.4	12.5	11.4
Canada	2.0	5.7	4.1
Mexico	0.8	2.2	2.0
Caribbean	0.4	1.1	0.8
South America	0.0	0.0	0.0
Pacific Islands	0.2	0.6	0.4
Australia/New Zealand	0.6	1.7	1.2
Japan	1.6	4.5	3.3
Philippines	1.4	4.0	2.8
China, Korea	0.8	2.3	1.6
Southeast Asia	0.6	1.7	1.2
Indian Subcontinent	0.2	0.6	0.4
Middle East	0.4	1.2	1.2
Africa	0.0	0.0	0.0
Europe	1.4	4.0	2.8
Sample size	500	176	246

1/ Total exceeds 100 percent because respondents could name more than one destination per trip.

Source: John M. Knox and Juanita C. Liu, Out-of-State Recreational Travel by Hawaii Residents (Hawaii State Department of Planning and Economic Development, April 1980), p. 31.

Table 149.-- ZOOS: 1978 AND 1979

Zoo and year	Animal and bird inventory		Attendance
	Species	Individuals	
Coco Palms (Kauai):			
1978	11	45	1,081
1979	10	61	1,368
Honolulu Zoo:			
1978 (revised)	402	1,870	1,500,000
1979	391	1,907	1,300,000
Maui Zoological & Botanical Gardens:			
1978	(NA)	111	54,450
1979	39	127	83,000
Panaewa Rainforest Zoo (Hilo):			
1978	47	157	31,030
1979 1/	47	133	28,389

NA Not available.

1/ Closed October 22 - December 15, 1979.

Source: Data compiled by Hawaii State Department of Planning and Economic Development from Coco Palms Resort Hotel; Honolulu Department of Parks and Recreation; Maui Zoological and Botanical Gardens; and Hawaii County Department of Parks and Recreation.

Table 150.-- ATTENDANCE AT MUSEUMS AND OTHER CULTURAL ATTRACTIONS: 1979

Island and cultural attraction	Attendance
All attractions	10,609,610
Oahu	8,117,034
Bernice P. Bishop Museum 1/	300,568
Exhibition halls	150,590
Planetarium	89,754
Falls of Clyde Maritime Museum	35,915
Heritage Theatre	24,309
Foster Botanic Garden	113,894
Honolulu Academy of Arts	147,996
Iolani Palace State Monument 1/	65,000
Kahuku Sugar Mill	240,802
Mission Houses Museum	23,850
Mormon Temple Grounds, Laie 2/	301,728
National Memorial Cemetery	2,586,678
Pacific Submarine Museum	35,998
Paradise Park	335,000
Polynesian Cultural Center	1,100,000
Queen Emma Summer Palace	19,444
Royal Mausoleum State Mon. 1/	88,000
Sea Life Park 3/	650,000
Tropic Lighting Historical Center 4/	13,000
U.S. Army Museum, Ft. DeRussy	134,018
U.S.S. Arizona Memorial	1,237,759
By Navy boats	728,224
By civilian boats	509,535
Wahiawa Botanic Garden	60,337
Waikiki Aquarium	257,951
Waimea Falls Park	405,011
Hawaii	2,263,638
Hulihee Palace 4/	14,154
Kamuela Museum	18,739
Kilauea Visitor Center 5/	2,198,712
Lyman House Memorial Museum	32,033
Maui	86,259
Baldwin Home Museum	34,875
Hale Hoikeike	7,384
Halekii-Pihana State Monument 1/	44,000
Kauai	131,761
Hanalei Museum	6,500
Kauai Museum 6/	24,084
Kokee Natural History Museum	94,577
Waioli Mission House	6,600
Molokai	10,918
Kalaupapa Settlement	10,918

1/ Year ended June 30, 1979.

2/ Church of Jesus Christ of Latter-Day Saints, Hawaii Temple Visitors' Center.

3/ Year ended February 29, 1980.

4/ Closed part of the year.

5/ Hawaiian Volcanoes National Park.

6/ Year ended September 30, 1979.

Source: Data supplied to Hawaii State Department of Planning and Economic Development by State park, museum, and other officials.

Table 151.-- NATIONAL PARK ACREAGE AND VISITS: 1979

Facility	Acreage, Dec. 31		Visits
	Federal	Non-Federal	
All areas	238,000	11,210	3,384,343
Haleakala National Park	27,055	229	686,457
Hawaii Volcanoes National Park	210,730	9,615	2,266,713
Kaloko-Honokohau National Cultural Park	-	1,300	-
Pu'uhonua o Hōnaunau National Historical Park	181	-	409,436
Puukohola Heiau National Historic Site	34	66	21,737

Source: U.S. Department of the Interior, National Park Service, Hawaii State Office, records.

Table 152.-- STATE AND COUNTY PARKS: 1979

County	State parks				County parks 1/	
	Number of areas 2/	Acreage 2/		Visits 3/ (1,000)	Number of areas	Acreage
		Total	Developed			
State total	65	20,625.3	880.0	17,911	595	7,829
Hawaii	17	2,160.5	300.3	5,415	129	1,416
Maui	12	431.6	61.0	2,786	90	894
Honolulu	24	8,635.4	320.5	2,644	318	5,001
Kauai	12	9,397.8	198.2	7,066	58	518

1/ As of December 31.

2/ As of June 30.

3/ Year ended June 30.

Source: Hawaii State Department of Land and Natural Resources, Division of State Parks, records; City and County of Honolulu, Department of Parks and Recreation, records; Hawaii County Department of Parks and Recreation, records; Maui County Department of Parks and Recreation, records; Kauai County Department of Public Works, records.

Table 153.-- PARTICIPATION IN RECREATIONAL ACTIVITIES: 1975

Activities	Activity occasions per 1,000 population 1/		Percent of total participation by visitors 2/
	Weekend	Weekday	
Walking, jogging	97.0	103.0	21
Hiking	11.5	6.0	...
Camping	38.4	10.5	1
Group camping	1.9	1.0	...
Picnicking	103.0	23.0	...
Hunting, shooting	3.4	0.8	...
Archery	0.7	0.8	...
Golf	20.8	4.7	15
Swimming, sunbathing	176.0	83.3	26
Diving	22.0	6.8	8
Surfing	30.3	19.1	9
Boating	14.5	2.0	17
Canoe paddling	5.3	2.5	...
Fishing	32.4	11.8	4
Game playing	74.0	83.8	6
Tennis	9.7	14.2	...
Attending outdoor events	62.7	15.3	17
Bicycling	84.6	81.7	...
Motorcycling	5.3	3.1	...
Other activities	22.6	12.5	...

1/ Hawaii residents only.

2/ Visitor activity occasions as percent of sum of visitor activity occasions and peak resident activity occasions.

Source: Aotani & Hartwell Associates, Inc., State Comprehensive Outdoor Recreation Plan Technical Report (December 1975), pp. 26, 37, 44, and 54.

Table 154.-- SELECTED RECREATIONAL ACTIVITIES: 1978 AND 1979

Subject	1978	1979
Camping permits (Oahu)	9,569	8,414
Licenses Issued:		
Freshwater game fishing	8,804	8,208
Hunting	11,925	11,680
Public golf courses (Oahu):		
Number of courses	4	4
Holes	63	63
Rounds played	398,337	351,204
Visitors to Mauna Kea during skiing season	(NA)	4,836

NA Not available.

Source: Hawaii State Department of Land and Natural Resources, records; City and County of Honolulu, Department of Parks and Recreation, records.

Table 155.-- PROFESSIONAL BASEBALL (HAWAII ISLANDERS): 1980 SEASON

Subject	Regular season 1/		Playoffs	
	First half	Second half	Divisional	Championship
Games played	65	76	3	5
Won	40	36	2	2
Lost	25	40	1	3
Tied	-			-
Percent won	.615	.474	.667	.400
Games ahead or behind	+4	-8	...	...
Home openings	37	27	3	-
Home attendance	66,357	71,420	10,553	-

1/ Split season introduced in 1979.

Source: Ferd Borsch, Islanders scorer, records.

Table 156.-- VARSITY SPORTS AT THE UNIVERSITY OF HAWAII-MANOA: 1978-1979 AND 1979-1980

(Data limited to games played against four-year collegiate teams.)

Sport and school year	All games			Home games	
	Won	Lost	Tied	Home dates	Attendance
Baseball:					
1978-1979 1/	69	15	-	45	81,162
1979-1980 2/	60	18	-	40	32,931
Basketball: 3/					
1978-1979	10	17	-	20	71,902
1979-1980	13	14	-	18	64,019
Football:					
1978-1979	6	5	-	9	327,295
1979-1980	6	5	-	9	334,364

1/ Including the Rainbow Easter Tournament and post-season play (Midwest Regionals).

2/ Including the Rainbow Easter Tournament and post-season play (Western Athletic Conference playoffs, Central Regionals, and College World Series).

3/ Including the Rainbow Classic.

Source: University of Hawaii, Office of Intercollegiate Athletics, Sports Information Office, records.

Table 157.-- PUBLIC HIGH SCHOOL SPORTS: 1978-1979 SEASON

(Includes both boys' and girls' sports. Excludes pre-season and post-season tournaments.)

Sport	Games 1/	Attendance	Expenditure (dollars)
Baseball	317	57,550	99,562
Basketball 2/	732	85,588	188,692
Football	247	259,537	404,913

1/ Data for 1977-1978, previously published, credited each participating team with a game, and thus the reported total was double the number of games played.

2/ Data for 1977-1978 expenditures, previously published, reflected only trust funds.

Source: Data supplied by Hawaii State Department of Education, Office of Instructional Services, Athletics Program, March 7, 1980.

Table 158.-- HONOLULU SYMPHONY ORCHESTRA: 1976-1977 TO 1978-1979

Season	Average number of orchestra personnel	Number of performances	Number of opera productions	Total attendance	Operating expenses (dollars)
1976-1977	80	136	3	200,000	1,654,050
1977-1978	75	109	3	194,474	1,980,720
1978-1979	75	118	3	192,413	2,398,020

Source: Honolulu Symphony Society, records.

Table 159.-- GOLF COURSES AND TENNIS COURTS, BY ISLANDS: 1979-1980

(Excludes facilities operated by the armed forces.)

Island	Golf courses 1/			Public tennis facilities 2/		Private tennis facilities 3/	
	9-hole	18-hole	27-hole	Locations	Courts	Locations	Courts
State total ..	10	28	1	80	242	35	184
Hawaii	2	6	-	21	45	11	41
Maui	2	6	-	11	33	8	49
Lanai	1	-	-	1	2	-	-
Molokai	2	1	-	-	-	1	4
Oahu	2	13	-	39	146	8	34
Kauai	1	2	1	8	16	7	56
Niihau	-	-	-	-	-	-	-

1/ As of June 1979.

2/ Facilities operated by the county governments, as of February 1980.

3/ Hotel and other private courts open to the public, as of June 1979. Excludes hotel facilities open only to guests.

Source: Golf courses and private tennis facilities from the Hawaii Visitors Bureau, Golf & Tennis in Hawaii (pamphlet, September 1979). County tennis facilities compiled from the county departments of parks and recreation by the Hawaii State Department of Planning and Economic Development.

Table 160.-- WATER RECREATION FACILITIES AND RESOURCES, BY ISLANDS: 1980

Island	Small craft mooring facilities capacity 1/		Miles of sandy shoreline 2/		Number of surfing sites 3/
	Catwalks and piers	Other mooring areas	Total	Primary 4/	
Six major islands .	1,088	930	184.9	24.4	1,600
Hawaii	26	376	19.4	1.2	185
Maui	41	145	32.6	7.9	212
Lanai	24	-	18.2	-	99
Molokai	3	29	23.2	-	180
Oahu	956	358	50.3	12.5	594
Kauai	38	22	41.2	2.8	330

1/ As of January 1980.

2/ Surveyed in 1962.

3/ Surveyed in 1971. A surfing site is defined as "a specific wave-breaking zone caused by a shoal and having sufficient consistency to be identified as a surfable riding area, either seasonally or in a combination of seasons, e.g., Queen's Surf, Waikiki."

4/ Safe, clean, accessible, and generally suitable for swimming.

Source: Hawaii State Department of Transportation, Harbors Division, Small Craft Mooring Facilities Utilization Report (monthly); Hawaii State Department of Planning and Economic Development, Hawaii's Shoreline (1965), p. 7; Surfing Education Association, The 1971 Statewide Surfing Site Survey, Vol. 1, p. 93.

Table 161.-- PERFORMING ARTS: 1978-1979 SEASON

Organization and type of performance	Productions	Performances	Attendance
Theater groups reporting	116	853	312,456
Brigham Young Univ.-Hawaii Campus	4	9	3,000
Chaminade University of Honolulu	3	20	1,120
Hawaii Loa College	2	8	975
Hawaii Performing Arts, Co., Ltd.	12	160	15,857
Hawaii Public Theater 1/	1	50	3,500
Honolulu Community Theatre	11	108	39,224
Honolulu Theatre for Youth	5	262	128,103
Leeward Community College	54	85	67,260
USASCH Recreation Services Theatre Guild 2/	7	44	8,460
UH/Manoa, University Theatre:			
On campus	11	62	29,317
Off campus	2	21	13,400
Windward Theatre Guild	4	24	2,240
Honolulu Department of Auditoriums	105	174	454,062
Ballets	6	14	22,597
Concerts	27	57	113,507
Operas	3	9	16,530
Rock shows	18	25	165,287
Other dramatic and musical productions	51	69	136,141

1/ Before May 1979, known as the Hawaii Theatre Festival.

2/ Other activities sponsored by the Music and Theatre Branch, Recreation Services Division, Directorate of Personnel and Community Activities, U.S. Army Support Command, Hawaii, included 29 concerts and music festivals (29 performances attended by 139,350), 3 special events/Festival of the Performing Arts productions (4 performances attended by 39,400), and 15 variety shows/soldier band/touring show productions (225 performances attended by 143,000).

Source: DPED mail and telephone survey of organizations listed.

Table 162.-- HOUSEHOLDS WITH SPECIFIED PETS, BY TYPE: 1970

Pet	Number of households with pets		Percent of households with pets		Number of pets in households 1/	
	State total 2/	Oahu only	State total 2/	Oahu only	State total 2/	Oahu only
Dogs	59,200	44,600	29.1	27.1	85,000	59,600
Cats	34,200	24,200	16.8	14.7	65,800	40,700
Pet birds ...	14,800	12,700	7.3	7.7	...	...
Fish	20,600	18,200	10.1	11.0	...	...
Turtles	5,400	4,600	2.7	2.8	...	...
Rodents 3/ ..	6,320	5,270	3.1	3.2	...	...

1/ Not compiled for pets other than dogs and cats.
2/ Excluding Niihau.
3/ Rabbits, guinea pigs, rats, mice, and chinchillas.
Source: John V. Gooch, D.V.M., Public Health Veteranarian, Communicable Disease Division, Hawaii State Department of Health.

Table 163.-- LICENSED DOGS, BY ISLAND: 1978 AND 1979

Year	State total	Hawaii	Maui	Lanai	Molokai	Oahu	Kauai
1978	50,851	5,200	5,361	137	365	38,215	1,573
1979	46,450	4,682	4,706	111	383	34,954	1,614

Source: Compiled by the Hawaii State Department of Planning and Economic Development from the County Departments of Finance.

Section 8

GOVERNMENT FINANCES AND EMPLOYMENT

This section presents statistics relating to the financial structure and civilian employment of Federal, State and County governments in Hawaii.

Local government is vested in one combined city-county (Honolulu, consisting of the Island of Oahu and several outlying islets), three non-metropolitan counties (Hawaii, Kauai, and Maui), and one area (Kalawao County) administered by the State Department of Health. Separate municipal governments do not exist.

Tax collections by Federal, State and County governments in fiscal 1979 reached $2,620 million, almost triple the level reported ten years earlier. The 1979 total included $1,455 million in U.S. taxes, $1,128 million in State taxes, and $37 million in County taxes, licenses and fees. Individual income taxes accounted for 83 percent of Federal collections and 23 percent of State collections in Hawaii in 1979. State revenue receipts totaled $1,578 million, chiefly from the General Excise and Use Tax ($431 million) and Federal grants-in-aid ($337 million). The largest expenditure item in the State accounts for 1979 was education, with $471 million (out of $1,483 million) going to the University of Hawaii and public schools and libraries. The counties, in contrast, depended largely on the real property tax (assessed and collected by the State) and grants-in-aid for their revenues, and reported police and fire protection as their largest single expenditure item. The estimated 1978 tax burden for a four-person family with per capita personal income equal to the State average was $12,308, including both direct taxes ($8,921) and employment taxes paid by employers ($3,596).

Assessed valuation of the State tripled between 1970 and 1980, reaching $21.9 billion by the end of the decade; of this total, $7.0 billion was exempt from taxation. Public bonded debt outstanding at the end of 1979 exceeded $1.97 billion. Average government employment reported for April 1980 was 92,000, about 25 percent over the 1970 average. The April 1980 total included 30,000 Federal workers, 49,000 persons employed by the State, and 13,000 persons on County payrolls. State civil service employees as of mid-1979 numbered 17,000.

Important sources for statistics on government in Hawaii include the U.S. Census of Governments and various annual publications of the Bureau of the Census, reports of the U.S. Treasury Department, Hawaii State Departments of Accounting and General Services, Budget and Finance, and Taxation, and the County auditors and finance directors, and an annual compilation issued by the Tax Foundation of Hawaii, Government in Hawaii: A Handbook of Financial Statistics. Data extending back to the middle of the 19th century are summarized in Historical Statistics of Hawaii, Section 25. Comparable Mainland statistics appear in the Statistical Abstract of the United States: 1979, Sections 9 and 10.

Table 164.-- FEDERAL, STATE, AND COUNTY TAX COLLECTIONS: 1969 TO 1979

Year	All levels of government			Federal 1/ ($1,000)	State 2/ ($1,000)	County 2/ ($1,000)
	Amount ($1,000)	Per capita 3/ (dollars)	Percent of personal income 4/			
1969	922,122	1,229	29.8	526,624	379,881	15,617
1970	1,057,376	1,364	30.1	602,998	438,397	15,981
1971	1,105,657	1,387	29.4	608,051	480,690	16,916
1972	1,162,700	1,417	28.3	632,583	512,047	18,070
1972	1,327,151	1,579	28.9	735,359	571,689	20,104
1974	1,512,414	1,772	29.3	840,089	650,855	21,470
1975	1,852,804	2,135	32.3	1,087,520	743,926	21,358
1976	1,821,934	2,065	29.3	945,899	850,639	25,396
1977	2,038,328	2,283	30.2	1,106,687	905,959	25,682
1978	2,228,779	2,470	29.8	1,208,480	986,182	34,117
1979	2,620,225	2,865	30.9	1,455,226	1,127,677	37,322

1/ Fiscal years ended June 30 through 1976 and September 30 thereafter.
2/ Fiscal years ended June 30.
3/ Based on estimated total resident population, June 30.
4/ Based on personal income estimates for calendar years.

Source: Tax Foundation of Hawaii, Government in Hawaii: A Handbook of Financial Statistics (annual). Per capita collections and percentages calculated by DPED.

Table 165.-- FEDERAL, STATE, AND COUNTY TAX COLLECTIONS, BY SOURCES: 1969 TO 1979

(In thousands of dollars.)

Source	1969 1/	1978 2/	1979 2/
Total, all levels	922,122	2,228,779	2,620,225
Federal collections	526,624	1,208,480	1,455,226
Indiv. income and employment	410,939	1,024,630	1,211,243
Corp. income and excess profits ..	81,138	147,164	199,747
Other sources	34,547	36,686	44,236
State collections	379,881	986,182	1,127,677
General excise and use	137,236	367,660	430,850
Fuel	23,917	46,113	48,319
Liquor	7,025	18,044	20,434
Public service companies	10,841	33,401	33,925
Corporate income 3/	13,749	23,836	32,273
Indiv. income, net income 4/	86,501	227,216	264,557
Real property	70,296	155,427	174,343
Unemployment compensation	13,325	73,706	75,458
Other sources	16,991	40,779	47,518
County collections	15,617	34,117	37,322
Motor vehicle weight	9,173	20,920	21,948
Other sources	6,444	13,197	15,374

1/ Fiscal year ended June 30.

2/ Fiscal year ended September 30 for federal collections and June 30 for state and county collections.

3/ Includes payments of estimated taxes less refunds.

4/ Includes withheld and estimated taxes less refunds, and delinquent compensation tax (repealed January 1, 1958).

Source: Tax Foundation of Hawaii, Government in Hawaii, 1980, pp. 18 and 34.

Table 166.-- ESTIMATED TAX BURDEN FOR A FOUR-PERSON FAMILY ON OAHU: 1976 AND 1978

[Based on a gross family income equivalent to four times the per capita personal income estimated for Hawaii.]

Tax category 1/	1976 (dollars)	1978 (dollars)	Percent increase
Total tax burden 2/	10,081	12,308	22.1
Direct taxes	8,132	8,921	9.7
Real property	481	529	10.0
Automobile	188	219	16.5
General excise (sales)	387	463	19.6
Specific excise	113	52	-54.0
State income	1,429	1,758	23.0
Federal income	4,112	4,206	2.3
Social Security	1,422	1,694	19.1
Employment taxes paid by employer	2,693	3,596	33.5
Social Security	1,422	1,694	19.1
Unemployment Compensation	510	770	51.0
Workers' Compensation	635	1,005	58.3
Temporary Disability	126	127	0.8
Assumed gross family income	26,632	30,708	15.3
Net income	16,551	18,400	11.2
Consumer price index (1967=100)	162.8	184.1	13.1

1/ For underlying assumptions, see source.

2/ Based on four times the per capita overall tax burden, including corporate income taxes, and not on the sum of the direct and employment taxes listed in this table.

Source: Tax Foundation of Hawaii, The Tax Burden of the Arnie Aloha Family (April 1977 and April 1979).

Table 167.-- STATE REVENUE RECEIPTS: 1978 AND 1979

(In thousands of dollars. Years ended June 30. Due to reclassification of funds, amounts not exactly comparable to prior years. Excludes certain Trust and Agency funds to avoid duplication.)

Source of revenues	1978: all funds	1979		
		All funds	General fund	Special fund
Total 1/	1,461,365	1,577,866	899,416	678,450
Tax revenues	838,849	955,553	829,141	126,412
General excise	367,660	430,850	430,850	-
Specific excises 2/	120,111	129,163	85,942	43,222
Individual income	227,216	264,557	264,557	-
Corporate income	23,836	32,273	32,273	-
Unemployment compensation	87,191	82,776	-	82,776
Other taxes, licenses, permits 3/	12,835	15,934	15,519	415
Fines, forfeits, and escheats	4,891	5,690	5,240	450
Federal grants-in-aid	376,233	337,364	6,739	330,625
Revenues from other agencies	1,623	1,412	790	622
Rents, royalties, land income	25,636	44,593	19,491	25,102
Earnings: general departments	87,432	99,340	32,696	66,645
Earnings: public service enterp.	66,393	70,306	-	70,306
Repayment debt costs: counties	910	527	527	-
Interest earned	712	477	477	-
Miscellaneous	58,686	62,603	4,316	58,288

1/ Excludes transfers and repayments except as shown.

2/ Includes public utilities, tobacco, liquor, insurance and fuel taxes.

3/ Includes franchise tax, inheritance and estate taxes, and conveyance tax.

Source: Tax Foundation of Hawaii, Government in Hawaii, 1980, p. 17.

Table 168.-- STATE OPERATING EXPENDITURES, BY FUNCTION: 1969 TO 1979

(In thousands of dollars. For years ended June 30. Due to reclassification of funds, 1978 and 1979 data are not exactly comparable to prior years. Data include general and special fund expenditures; Unemployment Trust Fund treated as a special fund. Interfund transfers eliminated to avoid duplication. Prior to 1970, cash capital improvements are allocated by function.)

Functions	1969	1978	1979
Total	480,625	1,459,601	1,482,995
General government: Control	9,630	24,174	27,609
Staff	21,686	68,322	63,308
Public safety: Police and fire .	86	2,723	2,691
Other protection	19,836	79,584	43,200
Highways	45,013	29,057	42,682
Natural resources	15,231	22,413	15,864
Health and sanitation	7,406	29,992	30,956
Hospitals and institutions	20,930	73,159	78,755
Public welfare	37,615	241,795	243,717
Education: Higher	72,842	164,851	173,869
Public schools	119,301	254,979	282,120
Libraries and other .	3,796	29,917	15,508
Recreation	2,174	7,777	8,462
Utilities and other enterprises	21,542	37,798	51,609
Debt service 1/	25,460	118,264	139,028
Retirement and pension	22,528	66,604	62,261
Employees' health and hosp. insurance	4,579	12,025	13,487
Unemployment compensation	12,098	66,824	44,052
Grants-in-aid to counties	12,442	22,327	20,650
Urban redevelopment and housing	2,994	39,497	38,668
Miscellaneous	3,436	7,761	13,354
Cash capital improvements 2/ ...	-	59,756	71,145

1/ Debt service on revenue bonds reimbursable from highway funds included in Highways; from airport and harbor funds under Utilities; from Sand Island receipts, Land Revolving and Veterans' Home Loan funds under Miscellaneous.

2/ Special funds account for $59,620,212 in 1978 and $71,111,203 in 1979.

Source: Tax Foundation of Hawaii, Government in Hawaii, 1980, p. 41.

Table 169.-- OPERATING REVENUES, BY SOURCE, AND OPERATING EXPENDITURES, BY OBJECT, FOR COUNTIES: 1979

(In thousands of dollars. For years ended June 30.)

Subject	City and Co. of Honolulu	County of Maui	County of Hawaii	County of Kauai
OPERATING REVENUES 1/				
Total	312,779	32,200	40,941	18,951
Real property taxes	135,048	12,056	19,822	7,408
Other taxes	25,773	3,059	4,233	1,995
Fees, licenses and permits	7,265	991	1,052	432
Departmental earnings 2/	25,548	4,065	2,194	1,613
State grants	9,217	7,662	5,653	4,002
Federal grants	106,586	5,147	7,596	2,981
Other sources	3,342	221	390	519
OPERATING EXPENDITURES 3/				
Total	293,118	36,939	39,221	18,071
General government	28,890	6,597	7,129	4,137
Police and fire	56,952	6,352	9,776	4,357
Other protection	8,583	4,111	2,169	189
Highways	13,389	3,008	3,177	1,347
Health and sanitation	21,914	1,706	1,544	546
Recreation	19,794	2,215	3,253	1,477
Interest	11,828	829	1,716	842
Bond redemption	15,451	1,253	1,455	819
Pension and retirement	18,456	1,955	4,778	1,663
Economic and urban development 4/	39,854	-	-	-
Mass transit	24,621	-	601	-
Miscellaneous	13,310	5,477	2,093	2,467
Cash capital improvements	20,073	3,436	1,532	227

1/ Excludes loan, bond, revolving, and certain trust funds and Water Supply revenues.

2/ Includes rentals, interest and other earnings.

3/ Excludes certain revolving, bond, and Act 97, SLH 1965 fund expenditures and loan repayments.

4/ Includes expenditures from federal employment (CETA) and redevelopment grants.

Source: Tax Foundation of Hawaii Government in Hawaii, 1980, pp. 30, 31, 42, and 43.

Table 170.-- GENERAL EXCISE AND USE TAX BASE AND COLLECTIONS: 1978 AND 1979

(In thousands of dollars.)

Source of revenue	Tax base		Tax collections	
	1978 1/	1979	1978 1/	1979
All sources	13,944,125	17,142,970	392,236	466,535
Sources taxed at 4%	9,192,521	10,891,209	367,701	435,648
Retailing	4,774,076	5,519,889	190,963	220,796
Services	1,222,996	1,412,195	48,920	56,488
Contracting	1,060,898	1,325,460	42,436	53,018
Theater, amusement, radio	104,085	109,143	4,163	4,366
Interest	89,448	133,242	3,578	5,330
Commissions	261,025	307,391	10,441	12,296
Hotel rentals	535,874	672,098	21,435	26,884
All other rentals	857,073	1,027,848	34,283	41,114
Use (4%)	138,238	233,116	5,530	9,325
All others	148,809	150,450	5,952	6,018
No activities (4%)	-	377	-	15
Sources taxed at other rates 2/	4,751,603	6,251,745	24,304	30,744
Insurance solicitors	36,420	174,676	728	358
Sugar processing	291,000	305,738	1,455	1,529
Pineapple canning	131,665	164,200	658	821
Producing	151,955	156,873	760	784
Manufacturing	494,498	565,221	2,472	2,826
Blind, deaf, disabled	5,580	8,993	28	45
Wholesaling	2,158,707	2,800,951	10,794	14,005
Services (intermediary)	49,793	44,302	249	222
Use (1/2%)	1,431,984	2,030,945	7,160	10,155
No activities (1/2%)	-	(154)	-	(1)
Penalties and interest	...	...	230	142
Adjustments	-	16	-	1

1/ Partly estimated.

2/ Insurance solicitors at 0.15%; others at 0.5%.

Source: Hawaii State Department of Taxation, General Excise and Use Tax Base and General Excise and Use Tax Collections (calendar year summary tables).

Table 171.-- REAL PROPERTY TAX VALUATIONS: ANNUALLY, 1970 TO 1980

(In thousands of dollars. As of July 1 through 1976 and January 1, 1977 and later years.)

Year	Assessment ratio 1/	Assessor's gross valuation			Valuation for tax rate purposes
		Total	Land	Improvement	
1970 ...	70	7,663,518	4,335,564	3,327,953	4,627,047
1971 ...	70	8,564,188	4,669,721	3,894,467	5,278,571
1972 ...	70	9,744,772	5,312,116	4,432,657	6,068,713
1973 ...	70	10,762,052	5,884,121	4,877,931	6,807,565
1974 ...	70	12,642,408	6,677,996	5,964,412	8,316,444
1975 ...	70	15,254,436	8,025,847	7,228,589	10,236,457
1976 ...	60	15,519,576	8,826,837	6,692,739	9,806,352
1977 ...	60	15,951,005	8,886,616	7,064,389	10,114,771
1978 ...	60	17,761,105	9,846,501	7,914,604	11,531,484
1979 ...	60	19,376,848	10,690,826	8,686,022	12,908,172
1980 ...	60	21,881,304	12,074,217	9,807,087	14,831,641

1/ Percent of fair market value.

Source: Hawaii State Department of Taxation, "Real Property Tax Valuations and Tax Rates" (annual release).

Table 172.-- REAL PROPERTY TAX VALUATIONS: 1970, 1979, AND 1980

(In thousands of dollars)

Subject	1970	1979	1980
Assessor's gross valuation 1/	7,663,518	19,376,848	21,881,304
Land	4,335,564	10,690,826	12,074,217
Improvement	3,327,953	8,686,022	9,807,087
Exemptions	2,994,141	6,402,561	6,962,358
Federal	692,786	1,113,142	1,180,899
State	830,189	1,722,988	1,957,518
County	263,188	548,955	607,080
Hawaiian Homes Commission	9,459	22,491	25,501
Homes -- fee	632,694	1,528,033	1,614,033
Homes -- leasehold	182,185	513,426	525,161
Public utilities	58,006	121,302	128,887
All other 2/	325,634	832,224	923,279
Assessor's net taxable valuation ..	4,669,377	12,974,287	14,918,946
Half of valuation on appeal	42,331	66,114	87,306
Number of appeals	1,037	1,106	1,110
Valuation for tax rate purposes ...	4,627,047	12,908,172	14,831,641
Land	2,786,455	7,430,334	8,409,813
Improvement	1,840,591	5,477,839	6,421,828
Amount to be raised by taxation 3/	86,291	183,812	211,858

1/ As of July 1, 1970 and January 1, 1979 and 1980.
2/ Mostly churches, non-profit organizations, and hospitals.
3/ For fiscal years beginning July 1.
Source follows next table.

Table 173.-- REAL PROPERTY TAX VALUATIONS AND TAX RATES, BY COUNTIES: 1980

(Unless otherwise specified, in thousands of dollars.)

Subject	Honolulu	Maui	Hawaii	Kauai
Assessor's gross valuation 1/	16,516,479	2,639,773	1,916,568	808,484
Land	9,173,148	1,404,098	1,071,407	425,564
Improvement	7,343,331	1,235,675	845,161	382,919
Exemptions	5,873,062	387,567	542,795	158,934
Federal	1,161,445	3,236	11,344	4,874
State	1,644,928	93,396	189,990	29,204
County	525,669	42,532	25,252	13,627
Hawaiian Homes Commission	11,908	3,056	9,091	1,446
Homes -- fee	1,129,918	172,836	223,658	87,621
Homes -- leasehold	500,290	9,204	13,968	1,699
Public utilities	108,008	9,909	9,399	1,571
All other 2/	790,896	53,398	60,093	18,892
Assessor's net taxable valuation .	10,643,417	2,252,206	1,373,773	649,550
Half of valuation on appeal	51,408	25,451	4,898	5,548
Number of appeals	426	384	85	215
Valuation for tax rate purposes ..	10,592,009	2,226,755	1,368,875	644,002
Land	5,979,842	1,223,249	847,595	359,127
Improvement	4,612,167	1,003,506	521,280	284,875
Amount to be raised by taxation 3/	161,316	16,701	24,503	9,338
County tax rate per $1,000 value 4/	15.23	7.50	17.90	14.50

1/ As of January 1. The legal assessment ratio is 60 percent.

2/ Includes churches, non-profit organizations, hospitals, low-moderate income housing, government leases, schools, etc.

3/ For fiscal year beginning July 1.

4/ In dollars. For fiscal year beginning July 1.

Source: Hawaii State Department of Taxation, "Real Property Tax Valuations and Tax Rates" (annual release).

Table 174.-- ADJUSTED GROSS INCOME REPORTED ON INDIVIDUAL FEDERAL INCOME TAX RETURNS: 1968 TO 1978

Year earned	Number of returns	Adjusted gross income (less deficit)	
		Total ($1,000)	Per return (dollars)
1968	273,823	2,113,522	7,719
1969	290,251	2,407,048	8,293
1970	302,426	2,802,445	9,267
1971	308,814	3,010,051	9,747
1972	318,023	3,250,608	10,221
1973	345,211	3,749,212	10,861
1974	346,824	3,957,023	11,409
1975	358,510	4,269,028	11,908
1976	362,956	4,625,609	12,744
1977	380,937	5,218,740	13,700
1978 1/ ...	402,598	5,961,766	14,808

1/ Preliminary.

Source: U.S. Treasury Department, Internal Revenue Service, Statistics of Income. Individual Income Tax Returns (annual), and records.

Table 175.-- INCOME DISTRIBUTION REPORTED ON INDIVIDUAL FEDERAL INCOME TAX RETURNS: 1970 TO 1977

(By year in which income was earned. Comparability over time is affected by changes in law, return forms, and other factors.)

Size of adjusted gross income	1970	1976	1977
All returns	302,426	362,956	380,937
Under $2,000	51,572	48,812	30,534
$2,000 under $4,000	43,485	46,255	49,963
$4,000 under $6,000	36,674	41,056	38,407
$6,000 under $8,000	34,076	28,096	34,350
$8,000 under $10,000	23,894	19,022	38,712
$10,000 under $12,000	24,760	21,796	25,613
$12,000 under $14,000	23,250	23,410	21,616
$14,000 under $16,000	39,645	55,606	24,426
$16,000 under $18,000			17,721
$18,000 under $20,000			13,072
$20,000 under $25,000	13,173	34,497	28,895
$25,000 under $30,000	4,698	21,082	24,415
$30,000 under $50,000	5,411	18,318	27,308
$50,000 under $100,000	1,480	4,250	5,016
$100,000 under $200,000 ...	254	627	723
$200,000 under $500,000 ...	50	108	142
$500,000 under $1,000,000 .	4	18	15
$1,000,000 or more		3	9
Median income (dollars) ...	6,928	9,815	9,923

Source: U.S. Treasury Department, Internal Revenue Service, *Statistics of Income, Individual Income Tax Returns* (annual).

Table 176.-- STATE INCOME TAX RETURNS ON INCOME RECEIVED DURING 1977, BY ADJUSTED GROSS INCOME CLASS

Adjusted gross income class	Number of returns	Adjusted gross income 1/ ($1,000)	Net taxable income ($1,000)	Tax liability ($1,000)
All returns	384,924	4,719,669	3,140,643	220,095
Taxable returns 2/	308,094	4,554,713	3,096,724	217,339
$500, under $5,000	76,869	210,170	113,552	4,405
$5,000, under $10,000	67,059	502,568	330,030	18,489
$10,000, under $15,000	47,857	592,814	392,035	24,272
$15,000, under $20,000	35,021	613,366	411,566	27,459
$20,000, under $25,000	29,638	657,047	440,057	30,690
$25,000, under $30,000	18,506	506,357	345,755	24,885
$30,000, under $50,000	26,732	973,354	686,778	53,028
$50,000, under $75,000	4,490	257,756	195,392	16,721
$75,000, under $100,000 ...	762	63,139	49,729	4,506
$100,000, under $150,000 ..	872	98,776	72,985	6,970
$150,000 and over	288	79,365	58,843	5,914
Nontaxable returns 2/	57,710	84,103	...	...
Loss	2,722	(11,081)	...	...
Under $500	27,298	3,444	...	...
$500, under $5,000	24,106	35,981	...	...
$5,000 and over	3,584	44,678	...	...
Nonresident returns	19,120	80,853	43,919	2,756

1/ Totals and subtotals exclude losses.

2/ The median adjusted gross income was $11,057 for taxable returns and $479 for nontaxable returns.

Source: Hawaii State Department of Taxation, Hawaii Income Patterns 1977, Individuals, forthcoming.

Table 177.--FEDERAL AID: 1970 TO 1979

(In thousands of dollars)

Period	Amount
Years ended June 30:	
1970	123,582
1971	132,839
1972	163,355
1973	210,535
1974	245,308
1975	246,778
1976	306,796
July 1, 1976-September 30, 1976	82,267
Years ended September 30:	
1977	400,144
1978	413,391
1979	407,881

Source: U.S. Department of the Treasury, Federal Aid to States (annual).

Table 178.-- FEDERAL OUTLAYS IN HAWAII: 1968 TO 1979

(In thousands of dollars. For fiscal year ended June 30 through 1976 and September 30 thereafter.)

Fiscal year	All agencies	Department of Defense	Nondefense agencies
1968	848,383	498,196	350,187
1969	987,814	564,957	422,857
1970 (revised)..	963,668	524,474	439,194
1971	1,075,111	622,528	452,583
1972	1,173,340	669,999	503,341
1973	1,435,341	806,565	628,776
1974	1,643,890	943,622	700,268
1975	2,060,344	1,106,976	953,368
1976	2,162,221	1,221,098	941,123
1977	2,065,800	995,085	1,070,715
1978	2,507,095	1,239,947	1,267,148
1979	2,659,230	1,371,860	1,287,370

Source: U.S. Office of Economic Opportunity (1968-1975) and U.S. Community Services Administration (1976-1979), Federal Outlays in Hawaii (annual report, 1968-1976) and Geographic Distribution of Federal Funds in Hawaii (annual report, 1977-1979).

Table 179.-- FEDERAL OUTLAYS IN HAWAII, BY AGENCY AND FUNCTION: YEAR ENDED SEPTEMBER 30, 1979

Agency and function	Outlay ($1,000)
Total outlays	2,659,230
Agency:	
Dept. of Agriculture	83,362
Dept. of Commerce	15,799
Dept. of Defense	1,371,860
Dept. of Health, Education, and Welfare	602,208
Dept. of Housing and Urban Development	22,075
Dept. of the Interior	16,059
Dept. of Labor	70,245
Dept. of Transportation	109,712
Dept. of the Treasury	51,314
Environmental Protection Agency	30,896
International Communication Agency	13,500
Office of Personnel Management	132,535
Postal Service	44,376
Veterans Administration	61,940
Other agencies (less than $10,000,000)	33,349
Function:	
Dept. of Defense -- military	1,371,860
Postal service	44,376
Air transportation	44,364
Training and employment	57,953
Health care services	157,107
General retirement and disability insurance	311,672
Federal employee retirement and disability	114,513
Public assistance and other income supplements	139,656
Other functions (less than $40,000,000)	417,729

Source: Community Services Administration, Geographic Distribution of Federal Funds in Hawaii, Fiscal Year 1979.

Table 180.-- FEDERAL OUTLAYS IN HAWAII, BY COUNTIES: YEAR ENDED SEPTEMBER 30, 1979

County	Outlay ($1,000)
State total	2,659,230
City and County of Honolulu	2,369,817
Department of Defense	1,339,192
Nondefense agencies	1,030,625
Hawaii County	128,177
Kalawao County	768
Kauai County	55,388
Maui County	105,080

Source: Community Services Administration, Geographic Distribution of Federal Funds in Hawaii, Fiscal Year 1979.

Table 181.-- PUBLIC BONDED DEBT OF STATE AND COUNTY GOVERNMENTS: 1969 TO 1979

(In millions of dollars. As of December 31.)

Year	Total bonded debt 1/	State debt 2/	County debt 2/			
			Honolulu	Maui	Hawaii	Kauai
1969	631.3	423.1	185.8	11.0	8.8	2.7
1970	742.0	536.1	172.5	10.4	17.9	5.1
1971	925.5	679.3	198.9	25.4	17.1	4.9
1972	1,080.4	804.1	215.8	24.6	26.3	9.6
1973	1,219.4	944.1	212.1	23.9	25.0	14.3
1974	1,274.4	1,005.2	198.5	23.2	33.6	13.9
1975	1,435.9	1,185.6	182.8	22.4	31.8	13.3
1976	1,667.2	1,385.9	211.0	21.0	36.9	12.4
1977	1,775.7	1,483.1	226.9	19.6	34.6	11.5
1978	1,916.8	1,607.1	238.5	18.2	37.3	15.7
1979	1,971.9	1,677.6	224.3	16.8	38.3	14.9

1/ Outstanding state and county bonds, both general obligation and revenue bonds.

2/ Bonds are classified under the governmental unit charged with the payment of debt service costs.

Source: Tax Foundation of Hawaii, Government in Hawaii (annual).

Table 182.-- STATE GENERAL OBLIGATION BOND DEBT: 1969 TO 1979

(In dollars. As of June 30.)

Year	G. O. bond debt	Cash reserve for serial bonds	Net debt
1969	325,837,000.00	3,204,803.15	322,632,196.85
1970	342,329,000.00	2,916,418.02	339,412,581.98
1971	434,895,000.00	2,595,593.63	432,299,406.37
1972	522,918,000.00	2,109,114.74	520,808,885.26
1973	689,764,000.00	2,262,632.80	687,501,367.20
1974	770,325,000.00	2,821,305.76	767,503,694.24
1975	810,021,000.00	2,396,217.52	807,624,782.48
1976	1,039,744,000.00	1,422,038.00	1,038,321,962.00
1977	1,165,459,000.00	852,531.27	1,164,606,468.73
1978	1,336,906,000.00	496,979.40	1,336,409,020.60
1979	1,343,780,000.00	139,000.00	1,343,641,000.00

Source: Hawaii State Department of Accounting and General Services, records.

Table 183.-- FEDERAL, STATE, AND COUNTY EMPLOYMENT: 1970 TO 1980

(Annual averages unless otherwise specified.)

Year	Total govern-ment	Federal			State	Counties
		Total	Defense 1/	Non-defense		
1970	73,640	33,380	22,080	11,300	30,600	9,660
1971	78,220	32,920	21,520	11,400	34,920	10,380
1972	79,400	32,700	21,200	11,500	35,300	11,450
1973	78,050	31,650	20,600	11,050	35,250	11,150
1974	78,900	31,000	20,200	10,800	35,950	11,950
1975	82,000	30,550	19,700	10,850	38,700	12,750
1976	84,800	29,850	19,200	10,600	41,350	13,600
1977	85,700	29,300	19,000	10,250	42,650	13,800
1978	87,050	29,350	19,100	10,250	43,350	14,350
1979	86,500	29,700	18,850	10,800	43,300	13,500
1980: April ..	91,850	29,550	18,750	10,750	49,050	13,300

1/ Air Force, Army, and Navy.

Source: Hawaii State Department of Labor and Industrial Relations, State of Hawaii Labor Force Statistics for 1970 and 1971, Labor Force Data Book (March 1978), as revised, and records.

Table 184.-- STATE SALARY SCHEDULES FOR SELECTED SR LEVELS: JULY 1, 1978 TO 1980

(Dollars per month)

Salary range (SR) and step	Bargaining Units 3, 4, and 13 1/			Bargaining Unit 9 1/		
	1978	1979	1980	1978	1979	1980
Lowest SR:						
SR	4	4	4	4	4	4
First step 2/	533	590	651	550	609	672
Last step 3/	788	863	943	801	877	958
SR-11:						
First step 2/	722	793	869	736	808	885
Last step 3/	1,080	1,176	1,278	1,094	1,191	1,294
SR-21:						
First step 2/	1,131	1,230	1,336	1,139	1,239	1,346
Last step 3/	1,715	1,855	2,005	1,715	1,855	2,005
SR-31:						
First step 2/	1,797	1,943	2,009	1,795	1,941	2,097
Last step 3/	2,751	2,964	3,191	2,735	2,946	3,172

Salary range (SR) and step	Bargaining Unit 10 1/			Bargaining Unit 11 1/		
	1978	1979	1980	1978	1979	1980
Lowest SR:						
SR	4	4	4	4	4	4
First step 2/	539	606	676	647	692	765
Last step 3/	799	879	963	886	948	1,048
SR-11:						
First step 2/	955	1,043	1,135	824	882	972
Last step 3/	1,094	1,189	1,288	1,166	1,248	1,379
SR-21:						
First step 2/	1,146	1,243	1,345	1,206	1,290	1,425
Last step 3/	1,739	1,866	1,999	1,751	1,874	2,071
SR-31:						
First step 2/	1,821	1,952	2,090	1,827	1,955	2,160
Last step 3/	2,788	2,967	3,155	2,718	2,908	3,213

Footnotes and source on next page.

Table 184.-- STATE SALARY SCHEDULES FOR SELECTED SR LEVELS: JULY 1, 1978 TO 1980 -- Con.

1/ Bargaining units classified under the SR (salary range) schedules are: 3, white-collar; 4, white-collar supervisors; 13, professional and scientific; 9, registered nurses; 10, hospital and institutional; and 11, State Government firefighters.

2/ Lowest SR level at which State and County employees were hired.

3/ Last longevity step (L-4).

Source: Hawaii State Department of Personnel Services, records.

Table 185.-- STATE CIVIL SERVICE: 1977 TO 1979

(Years ended June 30)

Subject	1977	1978	1979
Civil service employees 1/	16,318	16,577	17,111
Department of Education	3,925	3,882	4,019
Department of Health	3,987	4,088	4,372
Department of Social Services and Housing	1,570	1,688	1,776
Department of Transportation	1,813	1,877	1,888
University of Hawaii	1,526	1,484	1,492
All others 1/	3,497	3,558	
Separations	1,746	1,613	1,639
Promotions	957	813	781
Transfers, demotions, and returns after promotions	845	633	664
Classification actions processed	3,425	3,219	3,323
Applications received	29,111	26,419	20,325
Applicants screened	20,428	15,834	19,710
Applicants placed on eligible list	15,522	13,184	13,580
Vacancies filled through certification of eligibles or non-competitive actions	4,967	2,756	2,775

1/ Judiciary (633 employees in 1977) excluded in 1978 and 1979.

Source: Hawaii State Department of Personnel Services, Annual Report 1978-79, pp. 2, 4, 7, and 8.

Section 9

SOCIAL INSURANCE AND WELFARE SERVICES

This section presents data related to governmental programs for old-age, survivors, disability and health insurance; public employees retirement; unemployment insurance; aid to the needy; and maternal, child, and other welfare services. Also included here are selected statistics on private charity and welfare programs.

Total public welfare costs reached $245 million in fiscal 1979, compared with $36 million a decade earlier. About 59 percent of the 1979 total came from State funds and the remainder from the Federal government. The monthly average number of persons served by major welfare programs in 1979 was 72,928, or 8.1 percent of the resident population of the State at the beginning of the year. Two-thirds of all public assistance payments and one-half of all recipient cases were accounted for by aid to families with dependent children. About 6.6 percent of all welfare cases receiving financial assistance early in 1980 were recent migrants to Hawaii. The average monthly payment per case for public assistance was $335, almost twice as much as in 1970. Participation in the food stamp program included 34,000 households and 90,000 persons. Among workers receiving unemployment compensation in 1979, weekly benefits averaged $93. Almost 106,000 Hawaii residents were receiving Social Security benefits as of the end of 1978, and about 67,000 were enrolled for Medicare. There were also 11,382 State and County government pensioners in 1979, with annual benefits in excess of $74 million. The Aloha United Way reported agency allocations of $7.0 million on Oahu and $1.2 million on the Neighbor Islands in 1979.

Major data sources include reports and records of the U.S. Department of Health, Education, and Welfare, the Hawaii State Department of Social Services and Housing, the Hawaii State Department of Labor and Industrial Relations, the Hawaii State Employees' Retirement System, and the Aloha United Way. Historical Statistics of Hawaii, Section 8, contains data for earlier years. Section 11 of the Statistical Abstract of the United States: 1979 presents comparable Mainland data.

Table 186.-- SOCIAL WELFARE COSTS: 1969 TO 1979

(In thousands of dollars. For years ended June 30.)

Year ended June 30	Total cost	By source of funds		By expenditure category			
		Federal	State	Administration	Medical payments	Money payments	Social service costs
1969	35,706	15,167	20,539	3,272	12,948	19,486	-
1970	46,566	20,396	26,170	3,730	16,421	26,415	-
1971	67,645	27,769	39,876	5,483	23,926	38,236	-
1972	94,212	38,143	56,069	6,324	34,278	53,610	-
1973	107,237	43,107	64,130	6,757	35,542	64,180	758
1974	111,627	45,782	65,845	7,933	39,096	63,131	1,467
1975	121,643	47,163	74,479	8,262	41,158	70,622	1,601
1976	168,440	67,629	100,811	10,701	60,685	87,956	9,098
1977	194,203	79,151	115,052	13,505	69,677	100,322	10,699
1978	230,111	93,490	136,621	14,206	93,399	111,275	11,231
1979	244,898	101,411	143,487	15,250	104,694	113,854	11,100

Source: Hawaii State Department of Social Services and Housing, records.

Table 187.-- PERSONS SERVED AND AVERAGE PAYMENTS, FOR PROGRAMS ADMINISTERED BY THE HAWAII STATE DEPARTMENT OF SOCIAL SERVICES AND HOUSING: 1969 TO 1979, MONTHLY AVERAGES

Year ended June 30	Major programs 1/		Service cases 2/	Medical payments 3/		Average money payments 4/ (dollars)	
	Recipients	Individuals		Cases	Individuals	Per case	Per individual
1969	11,013	28,845	926	2,492	2,700	147.86	56.45
1970	12,940	34,320	900	2,942	3,370	170.17	64.14
1971	16,467	44,897	743	4,073	4,496	198.20	72.69
1972	20,627	57,462	1,767	4,068	5,672	220.79	79.26
1973	24,400	66,535	7,833	3,040	4,612	227.11	82.30
1974	21,713	63,807	7,242	5,653	6,912	237.54	85.10
1975	20,850	59,911	7,777	8,212	8,963	275.20	95.77
1976	24,438	67,594	9,067	10,825	11,675	295.17	106.72
1977	36,534	81,938	12,610	12,303	13,329	307.76	114.52
1978	28,575	75,485	26,400	14,381	15,572	321.63	121.75
1979	27,399	72,928	25,358	13,796	14,890	334.90	150.99

1/ Old age assistance, aid to disabled, aid to families with dependent children, AFDC unemployed parents, AFDC foster care, child welfare foster care, and general assistance. Old age assistance, aid to the blind and aid to disabled assisted through the Federal Social Security Administration with State supplements excluded beginning January 1, 1974.

2/ Data for 1976 and 1977 are quarterly averages.

3/ Ineligible for money assistance, receiving medical payment only.

4/ Gross obligation basis.

Source: Hawaii State Department of Social Services and Housing, records.

Table 188.-- PUBLIC ASSISTANCE PAYMENTS AND RECIPIENTS: 1978 AND 1979

(Years ended June 30)

Program	Total payments ($1,000)		Recipient cases (monthly average)		Average monthly payment (dollars)	
	1978	1979	1978	1979	1978	1979
All programs	127,375	128,150	36,792	36,623	289	291
Old age assistance 1/ .	8,230	8,382	5,250	5,601	131	124
Aid to the blind 1/ ...	299	332	135	153	175	180
Aid to disabled 1/	9,894	10,502	4,536	5,179	162	168
Aid to families with dependent children 2/	81,905	87,627	18,117	18,783	376	388
Child welfare foster care	1,147	1,041	615	580	155	150
General assistance	25,900	20,266	8,139	6,327	265	266

1/ Assisted through the Federal Social Security Administration, with State supplements (Supplementary Security Payments) included.

2/ Includes AFDC unemployed parent and AFDC foster care.

Source: Hawaii State Department of Social Services and Housing, records.

Table 189.-- FOOD STAMPS: 1978 AND 1979

(Years ended June 30.)

Subject	1978	1979
Participation in food stamp program (monthly averages)		
Households, total participating	34,537	33,851
Public assistance recipients	23,490	22,768
Other participants 1/	11,047	11,083
Persons, total participating	93,261	90,443
Public assistance recipients	64,971	63,144
Other participants 1/	28,290	27,299
Food stamp purchase amount and bonus ($1,000)		
Total value of food stamps to recipients	65,596	52,807
Purchase (amount paid for by recipients) 2/	31,605	15,567
Bonus or free coupons given to recipients	33,991	37,240

1/ Not receiving public assistance (food stamp only).
2/ Purchase requirement discontinued effective January 1979.
Source: Hawaii State Department of Social Services and Housing, records.

Table 190.-- MIGRATION STATUS OF PUBLIC WELFARE RECIPIENTS: APRIL 1980

(This table reflects the April 1980 status of in-migrants receiving financial assistance, medicaid and food stamps. Within the financial assistance category are 1,913 children living with non-needy caretakers and within the medicaid category are 2,068 converted aged, blind and disabled cases.)

Place of birth or last previous residence	Number of welfare cases 1/				Amount of monthly financial assistance ($1,000)	
	Receiving financial assistance					
	Total	In Hawaii under 1 year	Medicaid	Food stamps only	All recipients	In Hawaii under 1 year
Total	26,550	-	15,679	15,189	14,732	567
Born in Hawaii	15,315	-	6,978	5,821	5,069	-
Born elsewhere	9,663	1,740	6,891	8,873	3,044	567
Mainland	5,518	774	1,517	5,993	1,760	245
Samoa	1,305	99	368	358	497	33
Philippines	730	23	2,655	1,391	150	5
Orient 2/	431	10	2,000	738	100	2
Southeast Asia 3/.	1,278	793	87	32	413	267
Other 4/	401	41	264	361	129	13
Unknown	1,572	-	1,810	495	447	-

1/ The number of individuals (rather than cases) was 66,226 receiving financial assistance, 18,983 receiving medical assistance only, and 37,556 enrolled in the food stamp only program. Data include Aid to Families with Dependent Children, Unemployed Father, General Assistance, and Aged, Blind, Disabled Supplement, but exclude foster care.

2/ China, Japan, and Korea.

3/ Vietnam, Cambodia, and Laos.

4/ South Pacific Islands, Canada, Europe, etc.

Source: Hawaii State Department of Social Services and Housing, records.

Table 191.-- SOCIAL SECURITY RECIPIENTS AND BENEFITS: 1970 TO 1978

Year	Number of recipients at end of year	Monthly amount payable at end of year		Total amount paid during year 1/ ($1,000)
		Total ($1,000)	Per recipient (dollars)	
1970	66,488	6,437	96.81	77,593
1971	70,912	7,666	108.11	92,440
1972	76,413	10,141	132.71	107,125
1973	82,224	11,202	136.24	134,198
1974	87,141	13,433	154.15	155,178
1975	91,731	15,629	170.38	181,775
1976	96,230	17,894	185.95	210,423
1977	101,911	20,669	202.81	241,814
1978	105,988	23,464	221.38	273,564

1/ Includes also retroactive benefits and lump-sum death payments. Source follows next table.

Table 192.-- MEDICARE ENROLLMENT AND REIMBURSEMENT: 1978

Coverage	Enrollment, July 1, 1978		Reimbursement, 1978 ($1,000)	
	Age 65 and over	Disabled and renal disease	Age 65 and over	Disabled and renal disease
Hospital and/or medical ..	66,837	6,805	53,387	9,453
Hospital only	65,177	6,805	35,665	4,763
Medical only	64,616	6,177	17,722	4,691

Source: U.S. Department of Health, Education and Welfare, Health Care Financing Administration, Office of Research Demonstrations and Statistics, records.

Table 193.-- UNEMPLOYMENT INSURANCE: 1970 TO 1980

Calendar year	Covered employment		Insured unemployment		Average weekly total wages (dollars)
	Total	Percent of total jobcount	Total	Percent of total unemployment	
1970 ...	302,388	91	7,369	46	131.87
1971 ...	309,901	91	12,315	53	135.38
1972 ...	321,751	92	14,485	54	141.92
1973 ...	335,615	92	12,107	46	151.17
1974 ...	342,615	91	13,900	47	162.25
1975 ...	350,481	92	18,779	59	174.42
1976 ...	357,770	92	21,480	55	183.87
1977 ...	367,518	92	16,438	55	192.29
1978 ...	384,214	92	11,287	36	207.98
1979 ...	(NA)	(NA)	10,381	42	(NA)
1980 ...	(NA)	(NA)	(NA)	(NA)	(NA)

Calendar year	Gross benefits 1/ ($1,000)	Weekly benefits 1/		Average benefit duration 1/ (weeks)	Exhaustion rate 1/ (percent)
		Maximum (dollars)	Average (dollars)		
1970 ...	20,655	79	58.15	15.0	21.3
1971 ...	35,390	86	63.38	18.3	33.8
1972 ...	37,865	90	65.57	19.9	41.7
1973 ...	37,014	93	67.57	16.0	30.2
1974 ...	45,208	98	71.86	16.2	35.3
1975 ...	58,942	104	76.34	16.4	34.1
1976 ...	71,574	112	83.84	18.9	48.4
1977 ...	55,823	120	88.68	16.4	36.0
1978 ...	45,653	126	91.25	16.2	34.1
1979 ...	39,864	134	93.07	13.5	23.1
1980 ...	(NA)	144	(NA)	(NA)	(NA)

NA Not available.

1/ Regular benefits only. Excludes extended benefits.

Source: Hawaii State Department of Labor and Industrial Relations, Unemployment Insurance Fact Book (May 1980), pp. 17, 19, 25, 37, 43, and 45.

Table 194.-- HAWAII STATE EMPLOYEES' RETIREMENT SYSTEM: 1970 TO 1979

Year	Membership, March 31	Pensioners, March 31	Assets, 1/ June 30 (dollars)	Total benefits paid 2/ (dollars)	Average monthly pension 2/ (dollars)	Administration expenses 2/ (dollars)
1970 ..	38,912	5,641	388,561,206	22,822,059	216	337,002
1971 ..	42,262	6,069	435,463,758	25,665,295	231	418,754
1972 ..	43,736	6,667	489,436,678	31,359,208	247	478,522
1973 ..	44,471	7,343	545,465,277	37,601,889	262	425,864
1974 ..	43,371	7,971	611,675,571	41,130,325	271	487,504
1975 ..	44,363	8,600	683,305,413	46,782,477	297	563,513
1976 ..	45,256	9,263	773,878,470	53,625,776	313	631,714
1977 ..	46,371	10,099	886,596,717	59,158,256	330	725,621
1978 ..	47,273	10,772	1,007,744,828	61,211,832	347	775,393
1979 ..	47,476	11,382	1,144,077,004	74,119,689	352	823,891

1/ Book value.

2/ Year ended June 30. Data on total benefits paid exclude pensioners' bonus and social security.

Source: Employees' Retirement System of the State of Hawaii, 54th Annual Report, June 30, 1979, pp. 19 and 34, and records.

Table 195.-- UNITED WAY REVENUES AND OUTLAYS, BY ISLAND: 1969 TO 1979

(In dollars)

Year	Four island total	Oahu 1/	Hawaii 2/	Kauai 3/	Maui 4/
TOTAL REVENUES					
1969	4,592,689	3,975,406	361,615	114,353	141,315
1970	5,040,081	4,377,883	366,260	123,584	172,354
1971	5,440,190	4,714,072	382,072	181,904	162,142
1972	5,524,611	4,749,399	405,716	181,418	188,078
1973	5,661,923	4,829,529	435,306	178,311	218,777
1974	6,134,664	5,257,649	445,263	180,480	251,272
1975	6,681,451	5,666,282	465,817	193,268	356,084
1976	7,321,190	6,204,303	507,442	207,096	402,349
1977	7,847,055	6,617,452	545,430	224,099	460,074
1978	8,418,900	7,149,078	564,578	228,440	476,804
1979	8,993,375	7,624,588	590,582	247,666	530,539
CONTRIBUTIONS 5/					
1969	4,640,239	4,036,075	353,602	111,681	138,881
1970	5,163,319	4,507,229	362,623	123,517	169,950
1971	5,583,189	4,862,764	376,657	181,626	162,142
1972	5,775,895	5,007,611	400,690	179,958	187,636
1973	5,891,918	5,076,425	420,818	176,265	218,410
1974	6,394,049	5,528,287	438,599	178,229	248,934
1975	6,519,877	5,518,832	457,816	190,863	352,366
1976	7,151,587	6,052,054	498,166	204,632	396,735
1977	7,699,256	6,487,420	535,796	221,778	454,262
1978	8,142,554	6,893,082	553,107	225,891	470,474
1979	8,852,477	7,510,568	577,408	244,867	519,634

Continued on next page.

Table 195.-- UNITED WAY REVENUES AND OUTLAYS, BY ISLAND: 1969 TO 1979 -- Con.

(In dollars)

Year	Four island total	Oahu 1/	Hawaii 2/	Kauai 3/	Maui 4/
TOTAL OUTLAYS					
1969	4,491,338	3,892,922	361,826	117,076	119,514
1970	4,976,724	4,277,561	349,161	129,464	220,538
1971	5,372,530	4,615,511	372,969	164,110	219,940
1972	5,470,845	4,682,606	403,301	191,085	193,853
1973	5,608,635	4,805,589	406,919	190,178	205,949
1974	6,032,973	5,187,501	419,258	183,041	243,173
1975	6,791,825	5,827,974	452,074	192,393	319,384
1976	7,274,522	6,184,064	478,389	201,215	210,854
1977	7,704,657	6,514,799	522,213	219,243	448,402
1978	8,218,882	6,953,222	557,735	225,411	482,514
1979	8,920,736	7,563,216	600,905	240,823	515,792
AGENCY ALLOCATIONS					
1969	4,114,298	3,605,892	303,200	105,053	100,153
1970	4,585,471	3,963,195	312,622	112,987	196,667
1971	4,938,840	4,265,374	331,480	144,058	197,928
1972	5,013,397	4,308,488	361,425	171,964	171,520
1973	5,128,529	4,412,466	362,406	171,330	182,327
1974	5,524,861	4,774,390	370,255	167,875	212,341
1975	5,992,669	5,138,244	396,814	176,150	281,461
1976	6,537,840	5,576,158	417,430	184,140	360,112
1977	7,007,059	5,950,252	459,619	201,082	396,106
1978	7,520,694	6,405,377	485,869	206,748	422,700
1979	8,199,320	6,972,047	523,759	221,000	482,514

1/ Aloha United Fund, 1969-1973; Aloha United Way, 1974 to present.

2/ Hawaii Island United Fund, Inc., 1969-1973; Hawaii Island United Way, Inc., 1974 to present.

3/ Kauai Community Chest, Inc., 1969; Kauai United Fund, Inc., 1970-1974; United Way of Kauai, 1975 to present.

4/ Maui United Fund, 1969-1973; Maui United Way, 1974 to present.

5/ Before adjustment for uncollectibles for Oahu, Kauai and Maui.

Source: Aloha United Way, Annual Report, 1969-1979; Hawaii United Way, Inc., Financial Statements (annual); United Way of Kauai and Maui United Way, records.

Section 10

NATIONAL DEFENSE

This section presents statistics relating to the armed forces and their dependents, national guard strength, civilian employment in national defense, veterans, military housing, and expenditures by the armed forces.

There were approximately 57,900 officers and enlisted men (including 13,000 aboard ships homeported in Hawaii) and 64,500 military dependents in the Islands as of July 1, 1979. This number has been relatively stable in recent years, but at the height of World War II more than 400,000 uniformed personnel were present. The Navy alone accounts for about two-fifths of the current total. More than 11,000 Hawaii residents were in the armed forces worldwide in 1979. The importance of national defense in Hawaii can be further measured by total expenditures ($1.22 billion), military prime contract awards ($307 million), civilian employment (19,000), veterans in civil life (94,000), military personnel receiving retired or retainer pay (9,000 men, receiving $7.7 million monthly), federally-connected pupils in public schools (43,500), military housing (19,000 units), and land controlled by the armed forces (223,000 acres). Defense expenditures are second only to tourism as a source of income to Hawaii.

The Department of Planning and Economic Development has, since 1959, issued periodic reports on Military Personnel and Dependents in Hawaii. Other published sources include reports of the U.S. Bureau of the Census, the Administrator of Veterans Affairs, the U.S. Department of Defense, the Hawaii State Department of Labor and Industrial Relations, Department of Defense, and Department of Education, the Hawaii State Census Statistical Areas Committee, and the Honolulu Department of Housing and Community Development. Definitions used by these sources frequently differ to some degree, and care is accordingly necessary in comparing data issued by two or more agencies. In mid-1978, for example, the number of armed forces in Hawaii was reported as 55,692 by DOD, 58,267 by the Bureau of the Census, 47,995 by the Bureau of Economic Analysis (which excludes ships crews) and 58,106 by the local commanding officers reporting to DPED. Historical Statistics of Hawaii, Section 26, includes series dating back to 1795. Section 12 of the Statistical Abstract of the United States: 1979 presents data on national defense and veterans affairs for other States and the entire nation.

Table 196.-- HAWAII RESIDENTS ON ACTIVE DUTY IN THE ARMED FORCES WORLDWIDE: 1978 AND 1979

Date	Number
1978: June 30	10,715
1979: March 31	11,069

Source: U.S. Department of Defense, Washington Headquarters Services, Information Operations and Reports, records.

Table 197.-- ARMED FORCES AND DEPENDENTS: 1978 AND 1979

(Includes Navy personnel in Hawaiian waters, regardless of home port, and excludes all Coast Guard personnel; for these reasons, data differ somewhat from those in the following table.)

Year	Active-duty military personnel in Hawaii, June 30			Dependents located in Hawaii, March 31 1/
	Total	Shore-based 2/	Afloat 3/	
1978	55,692	43,851	11,841	55,327
1979	54,216	44,758	9,458	57,030

1/ Including dependents of Hawaii residents stationed out of the State, if those dependents remained in Hawaii.

2/ Including personnel afloat and mobile but temporarily shorebased.

3/ Navy personnel afloat, identified with nearest port.

Source: Department of Defense, Washington Headquarters Services, Information Operations and Reports, records.

Table 198.-- MILITARY PERSONNEL, DEPENDENTS, AND FAMILIES: 1970 TO 1980

(Includes Navy and Coast Guard personnel afloat on a homeported basis. Data differ somewhat from similar series compiled by the Bureau of the Census and Department of Defense, reported elsewhere in this volume.)

Date	Personnel and dependents	Military personnel			Dependents in Hawaii	Military families
		Total	Ashore	Aboard ship		
1970: April 1 ..	117,943	56,085	41,362	14,723	61,858	20,558
July 1 ...	111,549	53,768	39,822	13,946	57,781	20,568
1971: July 1 ...	112,943	50,762	35,824	14,938	62,181	23,184
1972: July 1 ...	118,760	52,538	37,124	15,414	66,222	23,688
1973: July 1 ...	128,082	57,783	43,064	14,719	70,299	25,264
1974: July 1 ...	126,882	58,558	45,369	13,189	68,324	29,082
1975: July 1 ...	121,911	58,205	45,589	12,616	63,706	26,122
1976: July 1 ...	126,694	59,737	46,453	13,284	66,957	26,395
1977: July 1 ...	123,471	58,466	45,811	12,655	65,005	25,927
1978: July 1 ...	119,200	58,106	46,001	12,105	61,094	25,400
1979: July 1 ...	122,386	57,868	44,915	12,953	64,518	27,835
1980: April 1 ..	125,042	61,019	48,813	12,206	64,023	26,129

Source follows next table.

Table 199.-- MILITARY PERSONNEL, DEPENDENTS, AND FAMILIES, BY SERVICE AND ISLAND: APRIL 1, 1980

(See headnote to preceding table.)

Island and service	Military personnel				Dependents in Hawaii	Military families
	Ashore and afloat	Ashore		Aboard ship		
		In hsg. units	In barracks			
State total ..	61,019	35,115	13,698	12,206	64,023	26,129
By island:						
Oahu	60,641	34,868	13,583	12,190	63,649	25,986
Hawaii	162	110	42	10	142	60
Maui	27	21	-	6	53	19
Kauai	164	116	48	-	179	64
Kure Atoll	25	-	25	-	-	-
By service:						
Air Force	6,042	4,992	1,050	-	10,246	3,896
Army	17,721	11,527	6,194	-	22,917	9,492
Coast Guard	825	525	84	216	1,119	474
Marine Corps	12,894	8,330	4,564	-	7,938	8,330
Navy	23,537	9,741	1,806	11,990	21,803	8,937

Source: Hawaii State Department of Planning and Economic Development, *Military Personnel and Dependents in Hawaii, July 1, 1980* (Statistical Report 139, May 15, 1980).

Table 200.-- DEFENSE EXPENDITURES: 1969 TO 1979

Year	Amount ($1,000)
1969	625,948
1970	639,389
1971	708,764
1972	744,240
1973	840,855
1974	897,863
1975	982,779
1976	1,034,226
1977	1,086,561
1978	1,155,517
1979	1,221,784

Source: Quarterly reports of armed forces.

Table 201.-- DEFENSE EXPENDITURES, BY CATEGORY AND SERVICE: 1979

(In thousands of dollars)

Expenditure category	All services	Air Force	Army	Navy and Marines	Coast Guard
All categories	1,221,784	129,273	429,590	640,831	22,090
Military payroll	497,840	62,475	214,824	203,762	16,779
Civilian payroll	372,596	26,008	78,672	264,404	3,512
Supplies, equipment, services	351,348	40,790	136,094	172,665	1,799

Source: Quarterly reports of armed forces.

Table 202.-- MILITARY PRIME CONTRACT AWARDS OF $10,000 OR MORE, BY SERVICE: 1977 TO 1979

[In thousands of dollars. For fiscal years ended September 30. Data refer to net value of military procurement actions.]

Fiscal year	Total	Army	Navy	Air Force	Defense Logistics Agency
1977	223,805	46,385	77,298	21,003	71,242
1978	292,947	46,416	119,998	14,597	104,166
1979	307,041	55,384	111,350	23,601	110,457

Source: U.S. Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, Prime Contract Awards by State (annual).

Table 203.-- NATIONAL GUARD STRENGTH: 1970 TO 1979

[As of June 30]

Year	Total	Air	Army
1970	3,929	1,604	2,325
1971	4,510	1,569	2,941
1972	4,803	1,574	3,229
1973	4,822	1,539	3,283
1974	4,859	1,493	3,366
1975	5,062	1,554	3,508
1976	5,090	1,626	3,464
1977	4,902	1,709	3,193
1978	5,249	1,808	3,441
1979	5,394	1,872	3,522

Source: Hawaii State Department of Defense, Annual Report (annual).

Table 204.-- CIVILIAN EMPLOYMENT IN THE AIR FORCE, ARMY, AND NAVY: 1970 TO 1980

(Annual averages unless otherwise specified.)

Year	Total	Air Force	Army	Navy
1970	22,080	3,680	6,100	12,300
1971	21,520	3,430	6,020	12,070
1972	21,200	3,400	6,000	11,800
1973	20,600	3,300	6,050	11,250
1974	20,200	3,300	5,700	11,200
1975	19,700	3,300	5,300	11,100
1976	19,200	3,200	4,950	11,050
1977	19,000	3,050	4,750	11,200
1978	19,100	2,850	4,500	11,750
1979	18,850	2,750	4,250	11,850
1980: April ...	18,750	2,650	4,100	12,000

Source: Hawaii State Department of Labor and Industrial Relations, State of Hawaii Labor Force Statistics for 1970 and 1971, Labor Force Data Book (March 1978), and records.

Table 205.-- HOUSING UNITS OPERATED BY THE ARMED FORCES: 1977 TO 1980

Date	Total operated	Owned by armed forces	Leased from private owners
1977: July 1	17,454	17,342	112
1978: July 1	18,533	18,533	-
1979: July 1	19,366	19,366	-
1980: April 1	19,352	19,352	-

Source: Hawaii State Census Statistical Areas Committee, The Geographic Distribution of Government Housing in Hawaii (annual).

Table 206.-- VETERANS IN CIVIL LIFE: 1979 AND 1980

(In thousands)

Period of service	March 31, 1979	March 31, 1980
Total veterans 1/	94	94
War veterans 1/	79	78
Vietnam era	33	33
Korean conflict	20	20
World War II	30	30
World War I	1	1
Post-Vietnam era only 2/	2	3
Between Korea and Vietnam only	13	13

1/ Veterans who served in more than one conflict are counted only once in the totals and subtotals.

2/ Service only after May 7, 1975.

Source: Veterans Administration, Veteran Population by Age, State of Residence and Regional Office, by Period of Service (semi-annual report).

Table 207.-- MILITARY PERSONNEL RECEIVING RETIRED PAY: SEPTEMBER 30, 1979

Service	Number of personnel	Monthly amount 1/ (dollars)	
		Total	Per person
Dept. of Defense	8,956	7,663,625	856
Army	3,827	3,075,857	804
Navy	2,317	1,995,248	861
Marine Corps	570	515,998	905
Air Force	2,242	2,076,522	926

1/ Before deductions for withholding taxes and allotments, but after deductions for survivor benefits, dual compenstion, etc.

Source: U.S. Department of Defense, DOD Actuary's Office, records.

Section 11

LABOR FORCE, EMPLOYMENT, AND EARNINGS

This section presents statistics on the size and composition of the labor force, employment by sex, occupation, and industry, work disability, wage rates, payrolls, hours, turnover, industrial safety, unionization, and strikes.

The civilian labor force averaged 399,000 in 1979; of this total, 374,000 persons were employed and 25,000 were unemployed and seeking work. The civilian jobcount rose from 318,000 in 1969 to 437,000 a decade later, an increase of 37 percent. (The jobcount differs from employment because the latter counts multiple jobholders -- "moonlighters" -- only once.) The unemployment rate averaged 6.3 percent in 1979, with island levels ranging from 5.6 to 11.3 percent. In 1976, 57.9 percent of all females 16 years old and over were in the civilian labor force -- the third highest ratio in the nation. By occupation, one out of six civilian workers is classified as professional or technical. Activities with especially large numbers of employees include government (86,000 in 1979, about 34 percent of them in federal jobs), services (98,000), and retail trade (86,000). The average annual earnings of wage and salary workers under the Hawaii Employment Security Law reached $12,400 in 1979, almost twice the 1969 average. Average weekly hours in 1979 ranged from 31.8 (for retail trade) to 44.2 (for communications and utilities). Labor union membership was estimated at 134,000 in 1978. Work stoppages in 1979 involved 10,380 workers.

Analyzing labor force trends is greatly complicated by recent shifts in sources and estimating methods. Prior to 1970, the number of employed civilians was estimated from data on the number of jobs covered by the Hawaii State Employment Security Law; workers holding more than one job were accordingly counted more than once. From 1970 to 1975, the same source was used, but the totals were adjusted to exclude the double-counting thought to be present. Then, beginning in 1976, the labor force estimates were based on the Current Population Survey, a relatively small household survey subject to considerable sampling variation. The 1970-1975 estimates were later revised for greater comparability with the 1976-1979 data.

Principal sources for the data on labor force, employment, hours, earnings, unions and strikes are the decennial reports of the U.S. Bureau of the Census, the same agency's 1976 Survey of Income and Education, various studies by the U.S. Bureau of Labor Statistics, monthly and annual tabulations by the Hawaii State Department of Labor and Industrial Relations, the OEO 1975 Census Update surveys, and annual surveys by the Hawaii Employers Council. Historical Statistics of Hawaii, Section 4, includes figures for earlier years. Statistics for the nation as a whole are published in Section 13 of the Statistical Abstract of the United States: 1979.

Table 208.-- EMPLOYMENT STATUS, BY SEX: SPRING 1976

(Excludes inmates of institutions and members of the armed forces in military barracks or aboard ships. Because of these omissions, the 1976 data are not comparable with results of the 1970 census.)

Sex	Population, 16 years and over 1/	Civilian labor force		Employed	Unemployed: percent 2/
		Number	Percent 3/		
Both sexes .	575,000	392,000	68.1	351,000	10.3
Male	276,000	219,000	79.3	196,000	10.2
Female	299,000	173,000	57.9	155,000	10.5

1/ Includes armed forces living off post or with their families on post.

2/ Of the civilian labor force.

3/ Of persons 16 years old and over. The percent for females was exceeded only by those reported for Alaska and the District of Columbia.

Source: U.S. Bureau of the Census, "Demographic, Social, and Economic Profile of States: Spring 1976," Current Population Reports, Population Characteristics, Series P-20, No. 334, January 1979, table 31.

Table 209.-- EMPLOYMENT STATUS OF THE CIVILIAN LABOR FORCE: ANNUAL AVERAGES, 1970 TO 1979

Year	Civilian labor force	Civilian employment	Unemployed	
			Number	Percent
1970	321,550	305,650	15,900	4.9
1971	336,800	313,450	23,350	6.9
1972	351,000	324,050	26,950	7.7
1973	364,600	338,350	26,250	7.2
1974	375,000	345,350	29,650	7.9
1975	382,950	351,100	31,850	8.3
1976	396,000	357,000	39,000	9.8
1977	404,000	374,000	30,000	7.4
1978	400,000	369,000	31,000	7.8
1979	399,000	374,000	25,000	6.3

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book (March 1978), pp. 1-2, as revised.

Table 210.-- EMPLOYMENT STATUS OF THE CIVILIAN LABOR FORCE, BY ISLANDS: ANNUAL AVERAGES, 1978 AND 1979

Year and island	Civilian labor force	Civilian employment	Unemployed	
			Number	Percent
1978				
State total	400,000	369,000	31,000	7.8
Oahu	314,750	290,950	23,800	7.6
Hawaii	35,900	32,300	3,600	10.1
Kauai and Niihau	17,600	16,400	1,200	6.9
Maui County	31,750	29,350	2,400	7.5
Lanai	1,750	1,550	200	10.8
Maui	26,550	24,750	1,850	6.9
Molokai	3,450	3,100	400	10.9
1979				
State total	399,000	374,000	25,000	6.3
Oahu	313,850	294,750	19,100	6.1
Hawaii	35,250	32,400	2,850	8.1
Kauai and Niihau	17,500	16,550	1,000	5.6
Maui County	32,400	30,350	2,050	6.3
Lanai	1,650	1,600	100	5.7
Maui	27,200	25,650	1,550	5.7
Molokai	3,550	3,150	400	11.3

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book (March 1978), pp. 1-16, as revised.

Table 211.-- ETHNIC STOCK OF EMPLOYED AND UNEMPLOYED PERSONS, FOR SPECIFIED AREAS: 1975

[Not available for Kauai County.]

Ethnic stock	Oahu		Hawaii County		Maui County	
	Employed	Unemployed	Employed	Unemployed	Employed	Unemployed
Total	248,755	28,532	26,095	2,668	24,648	2,650
Caucasian, exc. Portuguese .	56,588	8,284	4,019	610	5,856	812
Japanese	88,438	5,923	10,228	675	7,665	501
Filipino	26,363	3,190	2,432	151	3,702	317
Hawaiian	2,317	257	540	60	505	38
Part Hawaiian	28,671	5,093	4,539	610	3,876	672
Chinese	18,060	1,104	381	8	230	-
Korean	3,813	604	85	37	100	-
Portuguese	7,108	811	2,042	214	1,061	80
Puerto Rican	956	151	211	35	80	9
Samoan	1,271	541	38	22	38	13
Black	1,432	418	21	20	57	-
Mixed, exc. Part Hawaiian ..	11,335	1,658	1,329	218	1,295	171
Other	2,405	497	150	8	174	37
Not available	-	-	79	-	8	-

Source: Hawaii State Department of Labor and Industrial Relations, *Labor Force Information for Affirmative Action Programs* (April 1978), tables 7 and 8.

Table 212.-- JOBCOUNT, BY COUNTIES: ANNUAL AVERAGES, 1969 TO 1979

Year	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County 1/			
					Total	Maui	Lanai	Molokai
1969 ...	317,880	258,470	26,590	12,760	20,070	17,350	2,720	
1970 ...	331,580	270,310	28,410	12,540	20,320	17,410	2,920	
1971 ...	339,070	276,260	29,000	12,960	20,840	18,090	2,730	
1972 ...	349,950	285,900	29,450	13,050	21,550	18,900	900	1,700
1973 ...	365,050	298,900	30,150	13,600	22,250	19,800	900	1,550
1974 ...	374,650	306,350	31,000	13,600	23,650	21,150	900	1,600
1975 ...	380,900	308,550	32,350	14,550	25,400	22,950	1,000	1,450
1976 ...	387,000	312,100	33,000	15,250	26,600	24,100	950	1,500
1977 ...	398,600	319,900	34,100	15,900	28,450	23,000	350	1,350
1978 ...	417,500	334,400	35,400	16,650	30,950	25,300	350	1,400
1979 ...	437,100	350,550	36,350	17,350	32,750	27,250	350	1,450

1/ Jobcounts for agriculture (wage and salary, self-employed, unpaid family workers) and domestics not included in island breakdown for Maui County for 1977 through 1979.

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book (March 1978), tables 9-56, as revised; Labor Force Statistics, Bull. No. 70-F and 72-F; printouts for 1969.

Table 213.-- JOBCOUNT, BY INDUSTRY: ANNUAL AVERAGES, 1972 TO 1979

Industry	1972	1976	1977	1978	1979
Nonagriculture, wage and salary	312,700	349,200	359,400	377,300	396,600
Contract construction	23,600	21,400	19,750	20,650	22,950
Manufacturing	24,900	23,400	23,200	23,700	23,650
Durable goods	4,550	4,550	4,600	4,700	4,650
Nondurable goods	20,350	18,800	18,600	19,000	19,000
Food processing	12,550	11,300	11,250	11,700	11,550
Sugar	4,450	4,350	3,950	4,150	4,050
Pineapple	4,250	2,850	3,050	3,200	3,200
Other	3,800	4,050	4,250	4,300	4,300
Textile, apparel	3,550	3,300	3,250	3,250	3,300
Printing, publishing	2,800	2,700	2,750	2,850	2,900
Other nondurables	1,450	1,550	1,350	1,200	1,250
Transp., commun., utilities ..	24,800	27,100	28,200	28,800	30,350
Transportation	14,800	18,200	19,200	19,950	21,100
Communication	7,350	6,400	6,500	6,350	6,750
Utilities	2,650	2,500	2,500	2,500	2,500
Trade	75,250	87,900	92,200	97,900	104,450
Wholesale	15,150	16,050	16,600	17,200	18,200
Retail	60,100	71,800	75,550	80,700	86,250
Finance, insur., real estate .	20,200	24,700	25,650	28,850	30,250
Services and miscellaneous ...	64,550	79,900	84,750	90,300	98,450
Hotels	17,600	20,900	22,100	22,850	24,950
Other services, misc.	47,000	59,000	62,650	67,450	73,500
Government	79,400	84,800	85,700	87,050	86,500
Federal	32,700	29,850	29,300	29,350	29,700
Air Force	3,400	3,200	3,050	2,850	2,750
Army	6,000	4,950	4,750	4,500	4,250
Navy	11,800	11,050	11,200	11,750	11,850
Other	11,500	10,600	10,250	10,250	10,800
State	35,300	41,350	42,650	43,350	43,300
Local	11,450	13,600	13,800	14,350	13,500
Agriculture, wage and salary ...	11,200	11,050	11,300	11,550	10,800
Sugar	5,550	5,050	5,000	4,900	4,950
Pineapple	2,950	2,200	2,400	2,550	2,550
Other	2,700	3,800	3,900	4,100	3,300
Nonagric., self-employed 1/	21,300	22,050	23,000	23,800	24,450
Agric., self-employed 2/	4,600	4,450	4,400	4,700	4,550
Labor disputes	150	250	500	150	700

Footnotes and source follow next table.

Table 214.-- JOBCOUNT BY INDUSTRY, BY COUNTIES: ANNUAL AVERAGE, 1979

Industry	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County	
					Total	Maui only 3/
Nonagriculture, wage and salary	396,600	328,100	27,700	14,350	26,500	25,050
Contract construction	22,950	18,500	1,700	850	1,900	1,850
Manufacturing	23,650	17,450	2,800	1,250	2,150	2,150
Durable goods	4,650	4,000	300	(Z)	350	(NS)
Nondurable goods	19,000	13,450	2,500	1,200	1,800	(NS)
Food processing	11,550	6,700	2,150	1,100	1,600	(NS)
Sugar	4,050	3,450	(NS)	(NS)	(NS)	(NS)
Pineapple	3,200		(NS)	(NS)	(NS)	(NS)
Other	4,300	3,250	(NS)	(NS)	(NS)	(NS)
Textile, apparel	3,300	3,150	(NS)	(NS)	(NS)	(NS)
Printing, publishing	2,900	2,600	(NS)	(NS)	(NS)	(NS)
Other nondurables	1,250	1,000	(NS)	(NS)	(NS)	(NS)
Transp., commun., utilities .	30,350	25,200	1,950	1,600	1,600	1,450
Transportation	21,100	18,000	(NS)	(NS)	(NS)	(NS)
Communication	6,750	5,350	(NS)	(NS)	(NS)	(NS)
Utilities	2,500	1,850	(NS)	(NS)	(NS)	(NS)
Trade	104,450	87,250	7,000	3,450	6,800	6,600
Wholesale	18,200	16,050	1,150	350	700	700
Retail	86,250	71,200	5,800	3,100	6,100	5,900
Finance, insur., real estate	30,250	26,250	1,100	850	2,050	2,000
Services and miscellaneous ..	98,450	80,000	6,950	3,600	7,900	7,450
Hotels	24,950	15,750	3,050	1,750	4,350	4,000
Other services, misc.	73,500	64,200	3,850	1,850	3,550	3,400
Government	86,500	73,450	6,250	2,700	4,100	3,600
Federal	29,700	28,500	600	300	300	250
Air Force	2,750	2,600	(NS)	(NS)	(NS)	(NS)
Army	4,250	4,200	(NS)	(NS)	(NS)	(NS)
Navy	11,850	11,800	(NS)	(NS)	(NS)	(NS)
Other	10,800	9,850	(NS)	(NS)	(NS)	(NS)
State	43,300	35,100	3,950	1,600	2,650	2,300
Local	13,500	9,850	1,700	800	1,150	1,000
Agriculture, wage and salary ..	10,800	2,800	3,250	1,600	3,150	(NS)
Sugar	4,950	850	1,450	1,450	1,200	(NS)
Pineapple	2,550	1,050	-	-	1,500	(NS)
Other	3,300	900	1,850	150	400	(NS)
Nonagric., self-employed 1/ ...	24,450	18,200	2,500	1,150	2,550	2,200
Agric., self-employed 2/	4,550	900	2,850	250	550	(NS)
Labor disputes	700	550	50	(Z)	(Z)	(Z)

Footnotes and source on next page.

Table 214.-- JOBCOUNT BY INDUSTRY, BY COUNTIES: ANNUAL AVERAGE, 1979 -- Con.

Z Fewer than 50.
NS Not shown separately.
1/ Includes unpaid family workers and domestics.
2/ Includes unpaid family workers.
3/ Data for island of Maui only, excluding Molokai and Lanai.

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book (March 1978), as revised.

Table 215.-- CIVILIAN JOBCOUNT PROJECTIONS, BY INDUSTRIAL SECTORS: 1985 TO 2000

(In thousands. Excludes armed forces but not their dependents. Job data count multiple job-holders more than once.)

Sector	1985	1990	1995	2000
All civilian jobs	470.2	508.2	540.8	566.7
Wage and salary jobs	439.6	476.1	507.4	532.2
Sugar: Field	4.0	3.6	3.2	2.8
Processing	3.6	3.3	3.0	2.7
Pineapple: Field	2.1	2.0	1.9	1.7
Processing	2.4	2.2	2.0	1.9
Other agriculture	3.2	3.4	3.5	3.4
Other food processing	4.8	5.1	5.2	5.3
Hotels	34.0	39.3	43.4	45.7
Government: State and local	67.8	74.4	81.4	88.9
Federal	33.8	35.4	37.0	38.5
Construction	27.0	27.2	27.0	26.6
Manufacturing, exc. food proc.	12.6	12.1	11.5	10.8
Transportation	22.1	23.3	23.7	23.4
Communication and utilities	9.5	9.7	9.8	9.7
Trade, exc. eating and drinking ...	72.0	77.3	81.7	84.7
Eating and drinking places	37.6	41.1	43.3	43.7
Banking, finance, real estate	30.6	34.7	39.0	43.2
Other services	72.4	81.9	91.0	99.2
Self-employed	30.5	32.1	33.4	34.5

Source follows next table.

Table 216.-- CIVILIAN JOBCOUNT PROJECTIONS, BY COUNTIES: 1985 TO 2000

(In thousands. Excludes armed forces but not their dependents. Job data count multiple job-holders more than once.)

County	1985	1990	1995	2000
State total	470.2	508.2	540.8	566.7
City and County of Honolulu ...	373.5	397.8	416.8	429.9
County of Hawaii	41.2	45.7	49.8	53.1
County of Kauai	18.8	21.7	24.6	27.8
County of Maui	36.5	43.0	49.6	55.9

Source: Hawaii State Department of Planning and Economic Development, Revised Population and Economic Projections 1975-2000 (March 1, 1978; second printing, August 1, 1979).

Table 217.-- INDUSTRY BY SEX: 1979

(Excludes persons in institutions or military barracks, or on Niihau. Based on a sample survey of 6,015 persons 16 years old and over.)

Industry 1/	Both sexes	Male	Female
Civilian workers, 16 years old and over	363,057	201,811	161,246
Agriculture	15,143	11,242	3,901
Construction and mining	26,713	24,733	1,979
Manufacturing	25,160	15,662	9,498
Transportation, communication, utilities ...	28,197	19,371	8,826
Wholesale and retail trade	81,585	36,614	44,971
Finance, insurance and real estate	27,588	12,488	15,100
Services	109,178	48,340	60,838
Public administration, except armed forces .	44,195	31,074	13,122
Not reported	5,299	2,288	3,011

1/ Because of revisions in industrial codes, these tabulations are not directly comparable to those in earlier tabulations from the Hawaii Health Surveillance Program.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 218.-- OCCUPATION, BY SEX: 1979

(Excludes persons in institutions or military barracks, or on Niihau. Based on a sample survey of 6,015 persons 16 years old and over.)

Occupation 1/	Both sexes	Male	Female
Employed civilians, 16 and over	363,057	201,811	161,246
Professional and technical workers .	60,025	33,984	26,041
Farmers and farm managers	1,560	1,074	486
Managers, officials, proprietors ...	47,443	31,404	16,039
Clerical workers	60,883	13,442	47,441
Sales workers	31,964	15,457	16,507
Craftsmen and foremen	45,256	43,452	1,804
Operatives	26,938	18,283	8,655
Private household workers	1,359	62	1,296
Service workers	58,300	22,088	36,212
Farm laborers and foremen	6,504	4,422	2,081
Laborers, except farm	16,933	15,224	1,709
Occupation not reported	5,893	2,919	2,974

1/ Because of revisions in occupation codes, these tabulations are not directly comparable to those for 1977 in the Data Book 1979, table 175.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 219.-- EMPLOYMENT AND PAYROLLS COVERED BY THE HAWAII EMPLOYMENT SECURITY LAW AND UNEMPLOYMENT COMPENSATION FOR FEDERAL EMPLOYEES: 1969 TO 1979

Year	Number of employers, December	Average employment	Wages and salaries: Total ($1,000)	Wages and salaries: Per worker (dollars)
INCLUDING GOVERNMENT				
1969	13,183	284,782	1,958,177	6,876
1970	13,593	302,259	2,243,951	7,424
1971	13,904	310,658	2,384,785	7,677
1972	14,563	321,352	2,569,893	7,997
1973	15,346	336,026	2,849,172	8,479
1974	15,914	342,683	3,114,073	9,087
1975	16,558	349,887	3,417,570	9,767
1976	17,130	356,217	3,685,818	10,347
1977	17,831	366,555	3,996,746	10,903
1978	18,847	383,451	4,459,594	11,630
1979	19,639	400,963	4,983,844	12,429
EXCLUDING GOVERNMENT				
1975	16,552	267,805	2,439,226	9,108
1976	17,124	271,406	2,601,789	9,586
1977	17,825	280,836	2,816,521	10,029
1978	18,841	296,454	3,202,300	10,802
1979	19,633	314,447	3,689,161	11,732
NON-AGRICULTURAL 1/				
1975	16,041	256,720	2,335,946	9,099
1976	16,567	260,297	2,493,750	9,580
1977	17,267	269,554	2,706,712	10,041
1978	18,431	285,313	3,083,421	10,807
1979	19,213	303,305	3,551,436	11,709

1/ Data for 1975-1977 exclude approximately 850 persons employed by condominium associations, classified as agricultural in 1975-1977 but non-agricultural before 1975 and after 1977.

Source: Hawaii State Department of Labor and Industrial Relations, Employment and Payrolls in Hawaii (annual) and records.

Table 220.-- EMPLOYMENT AND PAYROLLS COVERED BY THE HAWAII EMPLOYMENT SECURITY LAW AND UNEMPLOYMENT COMPENSATION FOR FEDERAL EMPLOYEES, BY INDUSTRY: 1979

Industry	Number of employers, Dec.	Average employment	Total wages ($1,000)	Average annual wage (dollars)
All industries	19,639	400,963	4,983,844	12,429
Government	6	86,516	1,294,683	14,965
Federal	1	29,699	571,281	19,236
State	1	43,268	545,586	12,609
County	4	13,549	177,816	13,124
Private	19,633	314,447	3,689,161	11,732
Agriculture, forestry, fisheries	420	11,142	137,725	12,361
Sugar	13	4,709	71,447	15,172
Pineapple	5	2,482	28,545	11,501
Other	402	3,951	37,733	9,550
Mining and contract construction	1,816	23,465	446,605	19,033
Manufacturing	748	24,163	314,843	13,030
Sugar mills	14	3,820	60,737	15,900
Pineapple canning	3	3,530	33,312	9,437
Other food processing	160	4,499	54,196	12,046
Other manufacturing	571	12,314	166,597	13,529
Transportation	783	21,188	345,197	16,292
Communications	76	6,778	126,190	18,618
Utilities	40	2,523	50,407	19,979
Wholesale trade: Durable	816	8,819	139,866	15,860
Non-durable	908	9,469	116,998	12,356
Retail trade	4,626	84,723	664,558	7,844
Eating and drinking places	1,497	33,500	189,940	5,670
Other retail trade	3,129	51,223	474,618	9,266
Finance, insurance, real estate	2,662	29,014	378,977	13,062
Services	6,693	93,029	966,432	10,389
Hotels, rooming houses, etc.	180	23,735	218,954	9,225
Medical and other health services	1,292	16,773	237,618	14,167
Other services	5,221	52,521	509,860	9,708
Nonclassifiable establishments	45	134	1,365	10,259

Source follows next table.

Table 221.-- EMPLOYMENT AND PAYROLLS COVERED BY THE HAWAII EMPLOYMENT SECURITY LAW AND UNEMPLOYMENT COMPENSATION FOR FEDERAL EMPLOYEES, BY COUNTIES OR ISLANDS: 1979

Island or county	Including government		Excluding government			
	Number of employers, Dec.	Average employment	Number of employers, Dec.	Average employment	Total wages ($1,000)	Average annual wage (dollars)
State total ..	19,639	400,963	19,633	314,447	3,689,161	11,732
Oahu	15,105	326,127	15,102	252,732	3,009,677	11,909
Hawaii County	1,985	30,448	1,982	24,120	261,133	10,826
Maui County	1,714	29,192	1,711	25,109	288,715	11,498
Kauai County	841	15,196	838	12,486	129,636	10,382

Source: Hawaii State Department of Labor and Industrial Relations, 1979 Employment and Payrolls in Hawaii (September 1980).

Table 222.-- LABOR TURNOVER RATES IN MANUFACTURING: 1972 TO 1979

(Turnover per 100 wage and salary employees. Excludes pineapple canning.)

Year	Accessions			Separations		
	Total	New hires	Recalls 1/	Total	Quits	Layoffs
1972	2.2	1.8	...	2.4	1.2	0.4
1973	2.5	2.1	...	2.4	1.4	0.3
1974	2.3	1.8	...	2.3	1.2	0.5
1975	2.2	1.6	...	2.2	1.0	0.6
1976	2.4	1.3	0.6	2.5	0.8	1.0
1977	2.5	1.5	0.6	2.4	0.9	0.7
1978	2.9	1.4	1.2	2.9	1.0	1.3
1979	3.2	1.8	1.0	3.4	1.2	1.4

1/ Not available before 1976.

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book (March 1978), pp. 95-96, as revised.

Table 223.-- AVERAGE ANNUAL WAGE AND SALARY PAYMENTS PER WORKER, BY CLASS OF WORKER: 1970, 1978, AND 1979

Class of worker	1970	1978	1979	Percent change 1970-1979	Percent change 1978-1979
CURRENT DOLLARS					
Total	7,424	11,630	12,429	67.4	6.9
Federal	9,752	18,409	19,236	97.3	4.5
State	8,759	12,414	12,609	44.0	1.6
County	8,726	12,512	13,124	50.4	4.9
Private	6,849	10,802	11,732	71.3	8.6
CONSTANT (1979) DOLLARS					
Total	14,998	12,994	12,429	-17.1	-4.3
Federal	19,701	20,569	19,236	-2.4	-6.5
State	17,695	13,870	12,609	-28.7	-9.1
County	17,628	13,980	13,124	-25.6	-6.1
Private	13,836	12,069	11,732	-15.2	-2.8
Family budget 1/	12,776	23,099	25,799	101.9	11.7
Index (1979=100)	49.5	89.5	100.0	...	...

1/ Intermediate budget for an urban family of four persons on Oahu, as estimated by the U.S. Bureau of Labor Statistics. Includes consumption, gifts and contributions, social security and disability payments, and personal income taxes.

Source: Average wages from Hawaii State Department of Labor and Industrial Relations, Employment and Payrolls in Hawaii (annual) and records. Family budgets from U.S. Bureau of Labor Statistics, annual releases.

Table 224.-- HOURS AND EARNINGS INSPECIFIED INDUSTRIES: ANNUAL AVERAGES, 1969 TO 1979

Industry 1/	Ave. weekly earnings (dollars)			Average weekly hours			Ave. hourly earnings (dollars)		
	1969	1978	1979	1969	1978	1979	1969	1978	1979
Contract construction	213.44	385.40	397.80	40.5	36.6	36.0	5.27	10.53	11.05
Manufacturing	119.59	227.74	244.35	39.6	38.6	38.3	3.02	5.90	6.38
Food and kindred products	105.18	204.72	217.74	39.1	38.7	38.0	2.69	5.29	5.73
Communication and utilities	160.76	352.54	378.35	43.1	44.4	44.2	3.73	7.94	8.56
Trade 2/	89.23	158.07	173.01	33.8	33.0	33.4	2.64	4.79	5.18
Wholesale trade	117.20	219.84	238.23	38.3	38.3	38.3	3.06	5.74	6.22
Retail trade 2/	77.20	138.47	151.69	31.9	31.4	31.8	2.42	4.41	4.77
Finance	106.47	166.48	174.83	...	...	...	...	...	...
Hotels	75.60	155.20	166.52	31.9	32.4	31.9	2.37	4.79	5.22
Laundries	69.78	129.60	144.77	35.6	36.1	37.8	1.96	3.59	3.83

1/ Data for 1969 based on 1967 Standard Industrial Classification (SIC) code; 1978 and 1979 based on 1972 SIC.

2/ Excludes eating and drinking establishments.

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book (March 1978, as revised), pp. 79-A, 82-A, and 85-A, and records.

Table 225.--AVERAGE PAY RATES FOR SELECTED JOB CLASSIFICATIONS: 1974 AND 1979

[In dollars]

Job classification	Total employment 1/		Private employment, by island: 1979				
	1974	1979	State average	Kauai	Oahu	Maui	Hawaii
MONTHLY RATES							
Junior typist	504	712	712	...	708	...	...
Clerk-stenographer	624	828	873	...	843	1,198	...
Secretary	697	994	934	980	933	966	909
Accountant (entry level) ...	796	1,013	1,031	...	1,022	...	...
Drafting technician	793	1,017	...	...	...	...	...
Civil engineer (entry level)	842	1,044	...	...	...		...
Hospital attendant	497	730	734	...	742	673	724
Staff nurse	869	1,207	1,209	...	1,209	1,168	1,283
HOURLY RATES							
Housekeeper	2.936	4.197	4.197	4.217	4.193	4.182	4.233
Cook, general	4.349	6.306	6.319	6.889	6.163	6.460	6.666
Waiter/waitress	2.101	2.897	2.894	2.928	2.888	2.901	2.924
Laborer (light)	3.069	4.684	4.822	4.883	4.604	5.024	4.742
Carpenter (maintenance) ...	5.427	7.913	7.036	6.797	7.329	6.911	6.111
Electrician (maintenance) ..	5.929	9.456	7.997	6.859	8.304	7.728	7.752
Automotive mechanic	5.247	7.634	7.557	6.997	8.059	7.138	7.144
Truck driver (1 1/2-5 tons).	4.363	6.387	5.946	5.590	6.147	5.835	5.494

1/ Statewide average for both private and government employment.
Source: Hawaii Employers Council, Pay Rates in Hawaii (annual)

Table 226.-- MINIMUM WAGE CHRONOLOGY: 1942 TO 1981

[In dollars]

Effective date	Oahu	Other islands
1942: April 1 1/	0.25	0.20
1943: July 1	0.30	0.25
1945: July 1	0.40	0.40
1953: July 1	0.65	0.55
1955: July 1	0.75	0.65
1957: July 1	0.90	0.85
1958: July 1	1.00	1.00
1962: July 1	1.15	1.15
1964: January 1	1.25	1.25
1969: July 1	1.40	1.40
1970: July 1	1.60	1.60
1974: July 1	2.00	2.00
1975: July 1	2.40	2.40
1978: July 1	2.65	2.65
1979: July 1	2.90	2.90
1980: July 1	3.10	3.10
1981: July 1	3.35	3.35

1/ Inception of minimum wage law.

Source: Hawaii State Department of Labor and Industrial Relations, records.

Table 227.-- INTERSTATE MOVEMENT OF JOB-SEEKERS: 1974 TO 1979

Calendar year	Island workers on the Mainland 1/		Mainland workers in Hawaii 2/		Ratio 3/
	Total 4/	Regular only	Total 4/	Regular only	
1974	5,924	5,924	6,988	6,988	118
1975	9,425	7,607	9,478	8,785	115
1976	9,934	7,458	8,994	8,334	112
1977	7,090	5,846	8,846	8,154	139
1978	4,469	4,313	6,533	6,261	145
1979 5/	4,272	4,272	5,250	5,250	123

1/ Interstate liable initial claims (UI & Supp.), excluding UCFE & Supp. and UCX. Covers Hawaii workers seeking work and filing for benefits on the Mainland.

2/ Interstate agent initial claims (UI & Supp.), excluding UCFE & Supp. and UCX. Covers Mainland workers filing claims for unemployment insurance and registered for work with the Hawaii State Employment Service.

3/ Interstate agent initial claims (regular only) as a percent of interstate liable initial claims (regular only). Ratios under 100 suggest a net out-migration of workers.

4/ Regular and extended claims. Extended claims were included from February 1975 through March 1978.

5/ The method of counting liable and agent initial claims was revised effective October 1979. Data for 1979 are accordingly not directly comparable with figures for earlier years.

Source: Hawaii State Department of Labor and Industrial Relations, information supplied January 24, 1980.

Table 228.-- WORK DISABILITY STATUS OF PERSONS 18 TO 64 BY SEX: 1976

Sex	Total persons 16 to 24 years old	Total reporting on work disability status	Percent with a work disability 1/			
			Total	Prevented from working	Not prevented from working but not able to work regularly	Able to work regularly
Both sexes ...	507,000	502,000	9.2	3.5	1.1	4.6
Male	256,000	253,000	8.7	2.8	0.7	5.2
Female	251,000	249,000	9.7	4.2	1.5	4.0

1/ A person is classified as "with a work disability" if he has a health condition that limits the kind or amount of work he can do.

Source: U.S. Bureau of the Census, "Demographic, Social, and Economic Profile of States: Spring 1976," Current Population Reports, Population Characteristics, Series P-20, No. 334, January 1979, table 30, pp. 78-81.

Table 229.-- INDUSTRIAL ACCIDENTS, DEATHS, AND INSURANCE PAYMENTS: 1970 TO 1979

Year	Accidents		Deaths		Insurance payments ($1,000)
	Number	Rate 1/	Number	Rate 2/	
1970	37,405	68.56	40	5.2	12,528
1971	34,561	61.62	21	2.6	16,665
1972	34,901	59.93	45	5.5	18,773
1973	36,277	59.06	61	7.3	19,548
1974	37,646	60.47	72	8.4	18,341
1975	40,435	62.53	59	6.8	22,503
1976	38,721	58.60	39	4.4	27,760
1977	37,393	54.76	50	5.6	23,652
1978	38,869	54.10	48	5.3	32,847
1979	43,057	57.01	49	5.4	42,573

1/ Accidental injuries per 1,000,000 estimated non-federal wage and salary employee hours.

2/ Accidental deaths per 100,000 total resident population.

Source: Hawaii State Department of Labor and Industrial Relations, records.

Table 230.-- RECORDABLE OCCUPATIONAL INJURIES AND ILLNESSES OF NONGOVERNMENTAL WORKERS: 1972 TO 1978

Year	Injuries and illnesses		Lost workdays
	Number	Rate 1/	
1972	25,578	13.4	129,900
1973	28,842	13.9	151,600
1974	29,399	13.8	161,100
1975 2/	26,600	12.7	175,691
1976 2/	24,592	11.1	173,675
1977 2/	23,820	10.7	157,830
1978 2/	26,399	11.3	168,225

1/ Per 100 full-time workers.

2/ Data exclude agricultural employers with fewer than 11 employees.

Source: Hawaii State Department of Labor and Industrial Relations, 1977 Occupational Injuries and Illnesses Survey, State of Hawaii, p., 6, and records.

Table 231.-- RECORDABLE OCCUPATIONAL INJURIES AND ILLNESSES OF NONGOVERNMENTAL WORKERS: 1976 AND 1977

Subject	1976 total	1977		
		Total	Injuries	Illnesses
Recordable cases	24,592	23,820	23,135	685
Lost workday cases	12,462	12,197	11,912	285
Lost workdays	173,675	157,830	153,624	4,206
Per lost workday case	14	13	13	15
Nonfatal cases without lost workdays.	12,113	11,600	11,206	394
Cases per 100 full-time workers	11.1	10.7	10.4	0.3
Agriculture	21.9	18.2	17.6	0.6
Mining	13.9	4.9	4.9	0
Construction	24.8	23.1	22.8	0.4
Manufacturing	16.2	16.6	16.0	0.6
Transportation, public utilities	12.7	12.7	12.6	0.1
Wholesale and retail trade	8.6	9.0	8.7	0.3
Finance, insurance, real estate	2.6	2.6	2.5	0.1
Services	9.1	8.6	8.3	0.3

Source: Hawaii State Department of Labor and Industrial Relations, 1977 Occupational Injuries and Illnesses Survey, State of Hawaii, p. 4.

Table 232.-- MEMBERSHIP IN LABOR UNIONS AND EMPLOYEE ASSOCIATIONS: 1964 TO 1978

(Numbers in thousands)

Year	Total unions and associations		Labor unions				Employee associations 1/
					Unaffiliated		
	Number	Percent 2/	Total	Affiliated with AFL-CIO	National	Local unions	
1964 ..	(NA)	(NA)	49	24	24	(NA)	(NA)
1966 ..	(NA)	(NA)	62	31	25	7	(NA)
1968 ..	77	30.2	70	36	27	7	7
1970 ..	89	30.3	82	45	30	7	8
1972 ..	123	39.9	115	78	30	7	9
1974 ..	129	38.7	121	84	29	7	8
1976 ..	140	40.1	129	95	33	(Z)	12
1978 ..	134	35.8	120	94	27	(Z)	14

Z Fewer than 500.

NA Not available.

1/ Professional and State employee associations.

2/ Total union and association membership as a percent of nonagricultural employment. Union membership as a percent of nonagricultural employment was: 1964, 23.6; 1966, 26.6; 1970, 30.3; and 1974, 38.7.

Source: U.S. Department of Labor, Bureau of Labor Statistics, data supplied February 25, 1980.

Table 233.-- MEMBERSHIP IN LABOR UNIONS, BY CLASS OF WORKER AND ISLAND: 1973

Labor union membership	Total employment		Private employment	
	State total	Oahu	State total	Oahu
All workers 1/	325,100	267,000	249,100	201,000
Organized	130,700	97,200	90,400	65,500
AFL-CIO	89,100	73,500	60,100	50,600
Teamsters	5,900	5,700	5,900	5,700
ILWU	23,600	8,500	23,600	8,500
Others	12,100	9,500	800	700
Not organized	194,400	169,800	158,700	135,500

1/ As of October 1973. Excludes self-employed, domestics, and unpaid family workers.

Source: Hawaii Employers Council, Estimated Union Membership in Hawaii (Research Report No. 1211, January 1974).

Table 234.-- WORK STOPPAGES: 1977 TO 1979

(As estimated by the Hawaii State Department of Labor and Industrial Relations. Data exclude stoppages lasting less than one full shift (8 hours) and stoppages affecting fewer than 6 workers.)

Year	Number of stoppages 1/	Workers involved 1/	Man-days lost 2/
1977	12	9,670	206,795
1978	14	1,774	33,990
1979	10	10,380	229,880

1/ Stoppages carrying over from previous year are counted in both years.

2/ Party estimated.

Source: Hawaii State Department of Labor and Industrial Relations, Research and Statistics Office, records.

Table 235.-- STATE AND COUNTY EMPLOYEES IN COLLECTIVE BARGAINING UNITS: 1973 TO 1979

(As of December 31.)

Year	Total	State employees	County employees
1973 1/	35,293	26,453	8,840
1974 2/	37,005	26,904	10,101
1975	38,778	28,791	9,987
1976	39,738	29,816	9,922
1977	40,190	30,083	10,107
1978	40,760	30,360	10,400
1979	40,026	30,123	9,903
Collective bargaining agent (union): 1979			
HGEA	15,773	12,134	3,639
HSTA	9,056	9,056	-
UPW	9,179	6,052	3,127
UHPA (UH faculty)	2,750	2,750	-
SHOPO (police officers)	1,880	-	1,880
HFFA (firefighters)	1,388	131	1,257

1/ City and County of Honolulu as of February 1, 1974; Hawaii County as of January 15, 1974; Kauai County as of January 23, 1974.

2/ Counties as of January 15, 1975.

Source: Hawaii Public Employment Relations Board, HPERB Informational Bulletin, No. 6, 8, 10, 12, 13, 14 and 15.

Table 236.-- WORK STOPPAGES: 1960 TO 1979

(Estimated by U.S. Bureau of Labor Statistics.)

Year	Number of stoppages begun in year	Workers involved 1/	Man-days idle during year	Percent of estimated nonagricultural working time
1960	32	5,000	16,000	(NA)
1961	33	22,000	47,000	(NA)
1962	34	4,000	71,000	0.19
1963	27	23,000	176,000	0.47
1964	26	3,000	8,000	0.02
1965	24	8,000	45,000	0.11
1966	28	5,000	44,000	0.10
1967	40	11,000	87,000	0.20
1968	14	8,000	252,000	0.32
1969	26	18,000	205,000	0.03
1970	22	6,800	152,700	0.26
1971	21	3,700	32,200	0.05
1972	21	9,300	73,700	0.12
1973	11	9,600	97,100	0.12
1974	24	17,900	462,700	0.55
1975	13	1,900	32,400	0.04
1976	20	3,000	35,300	0.04
1977	8	14,700	666,000	0.74
1978	18	12,400	99,700	0.11
1979 2/	12	11,842	248,255	0.25
ISLANDS: 1979 2/				
Oahu	10	11,694	246,911	(NA)
Others	2	148	1,344	(NA)

NA Not available.

1/ Workers counted more than once if involved in more than one stoppage during year.

2/ Preliminary.

Source: U.S. Bureau of Labor Statistics, information supplied June 24, 1980.

Section 12

INCOME, EXPENDITURES, AND WEALTH

This section presents statistics on two different aspects of income and expenditures, one relating to the State income and product system and the other to the distribution of income to families and individuals. Specifically, information is given on gross state product, industrial income, personal income, family income, poverty, personal wealth, and family expenditures. Data on wage rates, salaries, and earnings appear in Sections 3, 8, 11, and 22; on industrial payrolls, in Sections 11, 15, 20, 22, and 23; on the family income of homeowners, renters, and visitors, in Sections 7 and 21; on retirement payments and public assistance, in Sections 9 and 10; on taxable income, in Section 8; on agricultural income, in Section 19.

Gross state product in 1977 amounted to approximately $8 billion, or about triple the 1966 total. The major sources of outside income to Hawaii in 1979 were defense expenditures ($1.2 billion), pineapple production ($190 million), sugar production ($346 million), and visitor expenditures ($2.6 billion). Personal income in 1979 was $8.4 billion, compared with $3.1 billion only ten years earlier, and per capita personal income was $9,223, more than twice the 1969 level. The per capita figure for Hawaii exceeded the national average by 5 percent, and thus failed to compensate for the Islands' 26-31 percent higher cost of living. The median annual income of families, based on data for 1975, was $18,228 on Oahu, $15,923 on the Neighbor Islands, and $17,770 Statewide; for unrelated individuals, the all-island median was $6,180. The official poverty threshold for a 4-person nonfarm family in Hawaii was set in April 1980 at $8,570. Top wealthholders in Hawaii -- those with gross assets of $60,000 or more -- numbered 11,323 in 1962 and 53,700 in 1972. Total assets of this group in the latter year amounted to $7.9 billion, 40 percent of which was in real estate. The most recent family expenditure survey, taken in 1972 and 1973, reported that the largest items in the family budget on Oahu were housing (accounting for 33.8 percent of spending for current consumption), food (20.4 percent) and transportation (19.1 percent).

The chief sources of data shown in this section are the U.S. Bureau of Economic Analysis, U.S. Bureau of the Census, U.S. Bureau of Labor Statistics, Community Services Administration, Internal Revenue Service, Hawaii State Department of Agriculture, Hawaii State Department of Planning and Economic Development, and Hawaii Visitors Bureau. Sections 6 and 7 of Historical Statistics of Hawaii present data for earlier years. Comparable data for the country as a whole are given in Statistical Abstract of the United States: 1979, Section 14.

Table 237.-- DIRECT INCOME FROM MAJOR EXPORT INDUSTRIES: 1969 TO 1979

(In millions of dollars.)

Year	Total for four major industries	Value of production		Defense expenditures	Visitor expenditures 1/
		Raw sugar and molasses	Fresh and processed pineapple		
1969 ...	1,480	179.0	125.4	625.9	550
1970 ...	1,561	187.8	138.6	639.4	595
1971 ...	1,758	202.9	141.4	708.8	705
1972 ...	1,914	184.7	145.4	744.2	840
1973 ...	2,226	222.2	142.4	840.9	1,020
1974 ...	2,927	676.6	127.1	897.9	1,225
1975 ...	2,846	366.1	136.7	982.8	1,360
1976 ...	3,076	257.0	144.5	1,034.2	1,640
1977 ...	3,320	226.8	161.6	1,086.6	1,845
1978 ...	3,786	285.2	157.4	1,155.5	2,188
1979 ...	4,378	345.7	190.2	1,221.8	2,620

1/ Direct visitor expenditures in Hawaii, exclusive of transpacific transportation and expenditures of carriers and crews.

Source: Hawaii Agricultural Reporting Service, *Statistics of Hawaiian Agriculture* (annual) and records; data supplied to DPED by armed forces; Hawaii Visitors Bureau, *1979 Annual Research Report*, table 1.

Table 238.-- GROSS STATE PRODUCT AND PER CAPITA GROSS STATE PRODUCT: 1958 TO 1977

Year	Gross state product 1/ (millions of dollars)		Per capita gross state product 2/ (dollars)	
	Current dollars	1972 dollars	Current dollars	1972 dollars
1958	1,412.3	2,170.3	2,333	3,585
1959	1,588.2	2,383.6	2,553	3,832
1960	1,800.9	2,651.9	2,807	4,134
1961	1,878.9	2,681.7	2,852	4,071
1962	1,971.0	2,774.6	2,884	4,059
1963	2,059.8	2,754.5	3,019	4,038
1964	2,245.9	3,000.3	3,209	4,287
1965	2,489.9	3,314.3	3,538	4,709
1966	2,802.3	3,604.7	3,945	5,075
1967	3,013.1	3,742.7	4,170	5,180
1968	3,350.7	3,983.2	4,562	5,423
1969	3,742.5	4,173.2	4,989	5,563
1970	4,164.7	4,495.4	5,379	5,807
1971	4,460.6	4,616.9	5,590	5,786
1972	4,935.4	4,935.4	6,012	6,012
1973	5,699.9	5,544.6	6,753	6,569
1974	6,318.7	5,661.5	7,398	6,629
1975	6,908.8	5,812.0	7,956	6,693
1976	7,378.6	(NA)	8,362	(NA)
1977	8,014.4	(NA)	8,977	(NA)

NA Not available.

1/ Estimates for 1976 and 1977 are preliminary.

2/ Per capita values for 1970-1977 will be recalculated after the release of final 1980 census results.

Source: Hawaii State Department of Planning and Economic Development, *Hawaii Income and Expenditure Accounts: 1958 to 1976*, Vol. I, and unpublished estimates for 1977.

Table 239.-- CHARGES AGAINST GROSS STATE PRODUCT: 1970 AND 1977

(In millions of current dollars.)

Subject	1970	1977 1/
Compensation of employees	2,916.1	5,271.5
Wage and salary dispersements	2,644.7	4,623.1
Employers' contributions to social insurance	154.7	325.7
State and local	41.7	67.6
Federal	113.0	258.1
Other labor income	116.7	322.7
Proprietors' income	192.8	344.3
Rental income of persons	95.6	85.6
Corporate profits	171.1	405.2
Corporate profits tax	80.4	120.1
State and local	13.7	22.8
Federal	66.7	97.3
Dividends	94.7	177.0
Undistributed profits after taxes.	-4.0	108.1
Net interest	238.3	565.0
Business transfer payments	15.5	35.1
Indirect business tax and nontax less subsidies	304.0	648.6
Capital consumption allowances	231.3	659.1
Charges against gross state product	4,164.7	8,014.4

1/ Preliminary

Source: Hawaii State Department of Planning and Economic Development, Hawaii's Income and Expenditure Accounts: 1958 to 1976, Vol. I, and unpublished estimates for 1977.

Table 240.-- ESTIMATED PERSONAL CONSUMPTION EXPENDITURES: 1975 TO 1978

[In millions of current dollars]

Consumption category	1975	1976 1/	1977 1/	1978 1/
All personal consumption	4,637.0	5,055.2	5,505.0	6,059.7
Goods	2,752.8	3,055.1	3,343.6	3,696.5
Durable	599.8	647.0	690.1	730.1
Nondurable	2,153.0	2,408.1	2,653.4	2,966.3
Services	1,884.3	2,000.1	2,161.4	2,363.2
Food and tobacco	1,204.2	1,311.0	1,415.1	1,520.6
Clothing, accessories, jewelry	500.0	540.5	606.7	680.1
Personal care	64.1	69.3	74.3	79.4
Housing	672.4	737.1	789.9	860.1
Household operation	597.5	652.3	697.4	762.4
Medical care expenses	316.3	362.1	412.0	469.1
Personal business	236.8	248.0	274.9	353.8
Transportation	534.2	572.4	603.8	632.5
Recreation	412.3	453.0	511.5	573.0
Private education and research	42.4	48.4	54.7	59.6
Religious and welfare activities	56.7	61.0	64.6	69.1

1/ Provisional estimates.

Source: Hawaii State Department of Planning and Economic Development, unpublished estimates.

Table 241.-- PROJECTED GROSS STATE PRODUCT, BY COMPONENTS: 1980 TO 2000

(In millions of 1975 dollars.)

Component	1980	1985	1990	1995	2000
Gross state product	7,755.1	9,338.0	10,903.8	12,552.5	14,239.8
Personal consumption	4,552.8	5,513.4	6,554.3	7,717.9	8,975.6
Investment--structures	745.5	932.9	1,015.1	1,082.3	1,138.8
Investment--other	740.3	959.0	1,163.2	1,378.6	1,600.0
State-local govt.--structures .	389.2	426.9	448.9	469.0	487.2
State-local govt.--other	1,057.1	1,348.5	1,655.7	2,001.4	2,383.5
Federal govt.--defense	1,085.0	1,198.0	1,322.6	1,460.3	1,612.2
Federal govt.--Nondefense	342.4	430.1	522.5	626.5	741.5
Visitor expenditures	2,053.9	2,669.8	3,248.3	3,765.7	4,157.6
Other exports	1,492.0	1,628.7	1,797.2	1,985.7	2,214.9
Less: imports	4,703.1	5,769.4	6,824.2	7,934.9	9,071.5

Source: Hawaii State Department of Planning and Economic Development, Revised Population and Economic Projections 1975-2000 (March 1, 1978; second printing, August 1, 1979).

Table 242.-- TOTAL AND PER CAPITA PERSONAL INCOME AND DISPOSABLE PERSONAL INCOME: 1969 TO 1979

Year	Personal income (millions of dollars)		Per capita personal income (dollars)		Per capita personal income as percent of U.S. average	
	Total	Disposable	Total	Disposable	Total	Disposable
1969	3,099	2,569	4,170	3,457	114	112
1970	3,509	2,898	4,599	3,798	118	114
1971	3,758	3,150	4,785	4,013	116	113
1972	4,110	3,379	5,078	4,177	113	110
1973	4,590	3,819	5,529	4,602	111	108
1974	5,170	4,290	6,130	5,088	113	110
1975	5,742	4,960	6,711	5,797	115	114
1976	6,209	5,321	7,134	6,114	111	111
1977	6,784	5,764	7,712	6,553	109	109
1978	7,510	6,366	8,438	7,152	107	107
1979	8,356	6,993	9,223	7,718	105	104

Source: U.S. Department of Commerce, Bureau of Economic Analysis, Survey of Current Business, August 1979, Part II, pp. 28-31, and August 1980, p. 59, and printouts dated April 1979 and August 1980.

Table 243.-- PERSONAL INCOME BY MAJOR SOURCES: 1974 TO 1979

(In millions of dollars.)

Item	1974	1975	1976	1977	1978	1979
Labor and proprietors income						
By type:						
Wage and salary disbursements ..	3,691	4,012	4,292	4,653	5,167	5,730
Other labor income	193	244	281	326	377	436
Proprietors income	284	247	275	320	364	388
Farm	65	37	39	44	49	46
Nonfarm	219	210	236	276	315	342
By industry:						
Farm	171	154	158	171	182	204
Nonfarm	3,997	4,349	4,690	5,128	5,725	6,351
Private	2,629	2,851	3,081	3,397	3,870	4,429
Government and govt. enterprises	1,368	1,498	1,609	1,731	1,855	1,922
Federal, civilian	438	475	512	538	569	589
Federal military	465	496	490	502	552	587
State and local	465	527	607	692	734	745
Derivation of personal income						
Labor and proprietors income	4,168	4,504	4,847	5,299	5,907	6,554
Less: Personal contributions for social insurance	230	254	281	302	339	389
Net labor and proprietors income .	3,938	4,250	4,567	4,997	5,569	6,165
Plus: Dividends, interest, and rent	684	784	822	912	1,004	1,155
Plus: Transfer payments	548	709	820	875	937	1,036
Personal income	5,170	5,742	6,209	6,784	7,510	8,356

Source: U.S. Department of Commerce, Bureau of Economic Analysis, printouts dated April and August 1980.

Table 244.-- PERSONAL INCOME, TOTAL AND PER CAPITA, BY COUNTIES: 1969 TO 1978

Year	State total	City and County of Honolulu	Other counties			
			Total	Hawaii	Kauai	Maui
Total: 1/						
1969	3,098.6	2,633.7	464.9	207.3	101.2	156.5
1970	3,508.7	2,981.5	527.2	240.5	109.5	177.1
1971	3,757.8	3,186.7	571.1	261.1	118.3	191.6
1972	4,110.1	3,493.7	616.4	283.2	124.5	208.7
1973	4,590.4	3,886.7	703.6	323.6	141.2	238.8
1974	5,170.0	4,341.1	828.9	370.9	172.3	285.7
1975	5,742.3	4,810.1	932.2	426.6	179.6	326.0
1976	6,209.0	5,190.6	1,018.5	448.0	195.7	374.8
1977	6,745.9	5,621.3	1,124.5	485.2	219.9	419.4
1978	7,489.5	6,232.8	1,256.7	540.9	244.4	471.5
Per capita: 2/						
1969	4,170	4,365	3,331	3,285	3,368	3,371
1970	4,599	4,780	3,788	3,785	3,698	3,851
1971	4,785	4,996	3,872	3,836	3,815	3,960
1972	5,078	5,310	4,070	4,103	3,943	4,104
1973	5,529	5,765	4,511	4,506	4,385	4,597
1974	6,130	6,320	5,293	5,138	5,384	5,453
1975	6,711	6,942	5,730	5,687	5,509	5,917
1976	7,134	7,411	5,991	5,758	5,762	6,436
1977	7,669	7,965	6,470	6,126	6,401	6,960
1978	8,465	8,806	7,100	6,687	7,044	7,676

1/ In millions of dollars.

2/ In dollars.

Source: U.S. Department of Commerce, Bureau of Economic Analysis, printouts dated April 1980.

Table 245.-- DISPOSABLE PERSONAL INCOME, TOTAL AND PER CAPITA: 1980 TO 2000

Year	Disposable personal income (millions of 1975 dollars)	Per capita disposable personal income (1975 dollars)
1980	5,735.5	6,087
1985	7,031.9	6,888
1990	8,449.1	7,741
1995	10,036.1	8,624
2000	11,787.1	9,615

Source: Hawaii State Department of Planning and Economic Development, Revised Population and Economic Projections 1975-2000 (March 1, 1978; second printing, August 1, 1979).

Table 246.-- TOTAL MONEY INCOME IN 1975 OF FAMILIES AND UNRELATED INDIVIDUALS BY GEOGRAPHIC AREA, AND PERSONS, BY SEX: SPRING 1976

[Numbers of families, unrelated individuals, and persons in thousands.]

Total money income in 1975	Families			Unrelated individuals			Persons 1/	
	State total	Oahu	Other islands	State total	Oahu	Other islands	Male	Female
All income levels	201	160	41	66	52	14	296	236
Under $2,000 2/	4	3	1	9	6	3	37	67
$2,000 to $3,999	7	5	1	15	10	5	34	50
$4,000 to $5,999	12	9	2	9	7	1	27	38
$6,000 to $7,999	13	10	3	8	7	1	30	32
$8,000 to $9,999	12	10	3	8	7	1	29	20
$10,000 to $11,999	15	11	4	5	4	1	26	12
$12,000 to $14,999	21	15	5	4	4	-	36	9
$15,000 to $19,999	33	25	8	5	4	1	38	6
$20,000 to $24,999	30	24	6	2	2	-	19	2
$25,000 to $49,999	50	42	8	2	1	-	21	2
$50,000 and over	5	5	1	-	-	-		
Median income 3/......dollars	17,770	18,228	15,923	6,180	6,815	3,432	9,489	4,082
Mean income ....dollars	19,789	20,218	18,119	7,950	8,577	5,581	11,282	5,182

1/ Reported for persons in households, 14 years old and over as of Spring 1976, with income in 1975. Persons 14 years old and over as of Spring 1976 but without income in 1975 numbered approximately 107,000 (27,000 males and 80,000 females).

2/ For persons, refers to incomes of $1 to $1,999 or loss.

3/ Corresponding medians for 1969 income, reported by the 1970 census, were as follows: for families, $11,554 Statewide, $12,035 on Oahu, and $9,756 on the other islands; for unrelated individuals, $2,981 Statewide, $3,013 on Oahu, and $2,702 on the other islands; for persons, $6,528 for males and $3,222 for females. The 1970 data, unlike those for 1976, included persons living in military barracks.

Source: U.S. Bureau of the Census, "Money Income and Poverty Status in 1975 of Families and Persons in the United States and the West Region, by Divisions and States (Spring 1976 Survey of Income and Education)," Current Population Reports, Consumer Income, Series P-60, No. 113 (July 1978), pp. 175-177.

Table 247.-- TOTAL MONEY INCOME IN 1975 OF HOUSEHOLDS: SPRING 1976

(Number of households in thousands)

Total money income	All households					Husband-wife house-holds
	Total	Island of residence		Tenure 1/		
		Oahu	Others	Owner occu-pants	Renter occu-pants	
Total	224	194	50	127	105	169
Under $5,000	30	21	9	8	20	7
$5,000 to $9,999	41	34	8	10	28	22
$10,000 to $14,999 ..	43	33	10	17	22	31
$15,000 to $19,999 ..	40	31	9	22	16	31
$20,000 to $24,999 ..	33	26	7	21	11	28
$25,000 to $29,999 ..	21	18	3	17	3	19
$30,000 to $49,999 ..	31	26	5	27	3	27
$50,000 and over	6	5	1	4	1	5
Median income 2/ (dollars)	15,991	16,468	14,309	21,295	10,858	18,911
Mean income (dollars)	18,354	18,869	16,347	23,342	12,881	21,151
Mean size of household	3.45	3.46	3.39	3.81	3.03	3.99
Per capita income (dollars)	5,321	5,447	4,821	6,126	4,257	5,301

1/ Occupiers who paid no cash rent not shown separately.

2/ The median 1969 income of households surveyed in April 1970 was $10,675 for the State and $11,171 for Oahu.

Source: U.S. Bureau of the Census, "Household Money Income in 1975, by Housing Tenure and Residence, for the United States, Regions, Divisions, and States (Spring 1976 Survey of Income and Education)," Current Population Reports, Consumer Income, Series P-60, No. 108 (November 1977), p. 145.

Table 248.-- PERSONS, FAMILIES, AND UNRELATED INDIVIDUALS BELOW SPECIFIED POVERTY LEVELS IN 1975: SPRING 1976

Group	Total (1,000)	Below current poverty level 1/		Below 125 percent of the current poverty level 1/	
		Number (1,000)	Percent	Number (1,000)	Percent
Persons 2/	842	67	7.9	101	12.0
Families	201	13	6.4	20	10.2
Unrelated individuals 2/.	66	14	21.6	20	29.7
Primary families and primary individuals 3/.	244	20	8.3	31	12.8

1/ Based on national poverty thresholds. The official Hawaii thresholds were 115 percent of the national levels.

2/ Excludes persons living in military barracks and inmates of institutions.

3/ A primary family is a family that includes among its members the person or couple who maintains the household. A primary individual is a person maintaining a household while living alone or with nonrelatives only.

Source: U.S. Bureau of the Census, "Consumer Income and Poverty Status in 1975 of families and Persons in the United States and the West Region, by Divisions and States (Spring 1976 Survey of Income and Education," Current Population Reports, Consumer Income, Series P-60, No. 113 (July 1978), pp. 179-180.

Table 249.-- POVERTY POPULATION, HOUSEHOLDS, FAMILIES, AND UNRELATED INDIVIDUALS, FOR COUNTIES: 1974-1975

Island or county and year of survey	Population		Households		Families 1/	Unrelated individuals
	Number	Percent 2/	Number	Percent 3/		
Oahu, 1975	70,515	10.4	21,596	10.3	14,564	16,136
Hawaii County, 1975 .	14,067	18.8	4,106	19.4	2,959	2,474
Maui County, 1975 ...	6,348	11.5	2,234	12.6	1,402	1,426
Kauai, 1974	3,407	11.5	1,050	12.1	(NA)	(NA)

NA Not available.
1/ Two or more persons.
2/ Of total non-barracks, non-institutional population.
3/ Of total households.

Source: Hawaii Office of Economic Opportunity, Poverty Data from OEO Census Update Survey for Oahu (p. 9), Hawaii County (p. 9), and Maui County (p. 11), and Poverty Data from Kauai Socioeconomic Profile, County of Kauai (p. 13).

Table 250.-- FAMILY INCOME POVERTY GUIDELINES: APRIL 21, 1980

(In dollars. These family income levels are poverty thresholds used by the Community Services Administration, effective April 21, 1980, to determine eligibility for Federal programs for the poor.)

Family size	Nonfarm family	Farm family
1	4,370	3,760
2	5,770	4,940
3	7,170	6,120
4 1/	8,570	7,300
5	9,970	8,480
6 2/................	11,370	9,660

1/ Corresponding levels for four-person families were $7,450 and $6,340 on the Mainland and $9,320 and $7,930 in Alaska.

2/ For larger families, add $1,400 for each additional member in a nonfarm family and $1,180 for each additional member in a farm family.

Source: Community Services Administration, "General Characteristics of Community Action Programs; Income Poverty Guidelines (Revised)," in Federal Register, Vol. 45, No. 78 (April 21, 1980), pp. 26712-26713.

Table 251.-- TOP WEALTHHOLDERS: 1962 TO 1972

(Top wealthholders are defined as persons with a gross estate of $60,000 or more. All figures are estimates based on estate tax returns. Money amounts are in millions of dollars.)

Subject		1962	1969	1972
Number of top wealthholders		11,323	36,470	53,700
Total assets		1,908	6,327	7,866
Debts and mortgages 1/ ...	Number	9,909	29,301	48,200
	Amount	231	1,090	1,369
Net worth		1,677	5,236	6,497

1/ "Debts" in 1962.

Source: U.S. Internal Revenue Service, *Statistics of Income - 1962, Personal Wealth* (1967), pp. 55-56, *Statistics of Income - 1969, Personal Wealth* (1973), 57-58, and *Statistics of Income - 1972, Personal Wealth Estimated from Estate Tax Returns* (1976), table 33.

Table 252.-- ANNUAL INCOME AND EXPENDITURE CHARACTERISTICS OF FAMILIES AND SINGLE CONSUMERS, FOR OAHU: 1972-1973

(Data are based on a sample of 228 families and single consumers, and are subject to relatively large standard errors.)

Item	Amount
Number of families in universe	209,000
Average family size	3.5
Average family income:	
Before taxes	$15,665
After taxes	13,055
Housing tenure (percent):	
Homeowner	41.0
With mortgage	29.4
Without mortgage	11.6
Renter	53.3
Other, including not reported	5.7
Automobile ownership:	
At least one automobile owned (percent)	86.2
Average number owned	1.5
Expenditure categories 1/	
Current consumption expenses, total	$9,506.14
Food, total	1,916.09
Food at home, total	1,292.73
Cereals and cereal products	52.94
Bakery products	86.52
Beef	215.27
Pork	90.75
Other meats	54.64
Poultry	63.26
Fish and seafood	99.54
Eggs	30.02
Fresh milk and cream	63.40
Other dairy products	53.86
Fresh fruits	54.21
Fresh vegetables	68.98
Processed fruits	42.00
Processed vegetables	42.95
Sugar and other sweets	32.82
Nonalcoholic beverages	81.36
Fats and oils	30.39
Miscellaneous prepared foods, condiments and seasonings	129.83
Food away from home	590.44
Meals as pay	32.93

Continued on next page.

Table 252.-- ANNUAL INCOME AND EXPENDITURE CHARACTERISTICS OF FAMILIES AND SINGLE CONSUMERS, FOR OAHU: 1972-1973 - Con.

Item	Amount
Current consumption expenditures (continued)	
Alcoholic beverages	$129.93
Tobacco products and smoking supplies	102.22
Housing, total	3,182.03
Shelter, total	1,917.78
Rented dwellings	1,129.97
Owned dwellings	813.36
Other lodging, excluding vacation	28.45
Fuel and utilities, total	256.40
Gas, total	25.18
Gas, delivered in mains	21.45
Gas, bottled or tank	3.74
Electricity	177.67
Gas and electricity, combined bills	2.08
Fuel oil and kerosene	.59
Other fuels, coal, and wood	.17
Water, garbage, sewerage, trash, and other	50.70
Household operations, total	504.69
Telephone	200.56
Housekeeping and laundry supplies, total	153.06
Laundry and cleaning supplies	50.52
Other household products	51.80
Postage and stationery	50.73
Domestic and other household services	151.06
Housefurnishings and equipment, total	449.17
Household textiles	64.49
Furniture	136.44
Floor coverings	48.60
Major appliances	103.44
Small appliances	12.15
Housewares	24.03
Miscellaneous	60.01
Clothing, total	590.48
Male's, 2 and over	214.17
Female's, 2 and over	324.16
Children's, under 2 years	13.11
Materials, repairs, alterations and services	39.03
Dry cleaning and laundry	63.43
Transportation, total	1,530.72
Vehicle purchases (net outlay)	578.97
Vehicle finance charges	110.52
Vehicle operations, total	758.61
Gasoline and fuels	317.03
Other	441.57
Other transportation	82.62

Continued on next page.

Table 252.-- ANNUAL INCOME AND EXPENDITURE CHARACTERISTICS OF FAMILIES AND SINGLE CONSUMERS, FOR OAHU: 1972-1973 - Con.

Item	Amount
Current consumption expenditures (continued)	
Health care, total	$513.92
Health insurance	197.68
Expenses not covered by insurance	283.52
Nonprescription drugs and medical supplies	32.72
Personal care	157.96
Recreation, total	834.15
Vacation and pleasure trips, total	372.57
Food	50.91
Alcoholic beverages	5.20
Lodging	30.54
Transportation, total	167.80
Gasoline	1.30
Other transportation	166.50
All expense tours	95.95
Other vacation expenses	22.17
Boats, aircraft, and wheel goods	25.68
Television	43.07
Pets, toys and games	46.33
All other recreation expenses	346.50
Reading	70.37
Education, total	142.50
Private	79.25
Public	56.88
Day and summer camp	6.38
Miscellaneous	272.33
Personal insurance, retirement, and pensions, total	1,325.37
Life, endowment, annuities and income insurance	437.01
Other personal insurance	12.78
Retirement and pensions	875.58
Gifts and contributions	451.82
Income and personal taxes 1/	
Sources of income and personal taxes	
Money income before taxes	15,665.31
Wages and salaries, total	12,873.17
Money wages and salaries, civilians	12,064.09
Union dues	-47.08
Other occupational expenses	-29.23
Rent received as pay	27.36
Meals received as pay	32.93
Money wages and salaries, armed forces	685.82
Quarters and subsistence	139.27

Continued on next page.

Table 252.-- ANNUAL INCOME AND EXPENDITURE CHARACTERISTICS OF FAMILIES AND SINGLE CONSUMERS, FOR OAHU: 1972-1973 - Con.

Item	Amount
Sources of income and personal taxes (continued)	
Self-employment income, total	$683.73
Net income from own business	600.97
Net income from own farm	82.76
Social security and railroad retirement	361.52
Government retirement, veteran's payments, and unemployment compensation	413.20
Estates, trusts, dividends, rental income, royalties, income from roomers and boarders, total	616.16
Rental income, royalties, income from roomers and boarders	150.31
Income from interest, dividends, estates and trusts	465.85
Income from all other sources, total	717.55
Welfare and public assistance	129.71
Private pensions	55.43
Regular contributions for support	74.72
Other income, including workers' compensation	457.68
Personal taxes, total	-2,610.60
Federal income taxes	-1,990.21
State and local income taxes	-595.92
Personal property and other personal taxes	-24.47
Other financial information 1/	
Other money receipts	561.06
Net change in assets and liabilities 2/	1,109.14
Net change in assets	2,016.72
Net change in liabilities	907.58
Goods and services received without direct expense	99.09
Market value of financial assets	8,199.06
Mortgage principal paid on owned property	-526.71
Estimated market value of owned home 3/	23,725.95
Estimated monthly rental value of owned home 3/	140.14

1/ Averages.

2/ Data represent end-of-values.

3/ Estimates made at the beginning of the survey year.

Source: U.S. Department of Labor, Bureau of Labor Statistics, Consumer Expenditure Survey: Integrated Diary and Interview Survey Data, 1972-73. Total Expenditures and Income for the United States and Selected Areas, Bulletin 1992 (1978), table 15, pp. 120-125.

Section 13

PRICES

This section presents indexes of consumer prices for Honolulu, average prices for selected foods, and a comparison of Honolulu family budgets with those in other metropolitan areas. Other statistics on prices are reported in Sections 16, 17, 18, 19, 20, 21, and 23.

In June 1980, the Honolulu all-items consumer price index for all urban consumers stood at 227.5, with the 1967 level equal to 100. The index had increased 11.3 percent in the preceding 12 months, 48.1 percent since June 1975, and 98.9 percent since June 1970. Prices have risen most rapidly since 1967 for gas and electricity (200.9 percent), food at home (159.9 percent), medical care (156.8 percent) and restaurant meals (up 153.5 percent), and least for women's and girls' apparel (up 67.7 percent).

An "intermediate" budget for a four-person family living on Oahu was estimated at $25,799 as of the Autumn of 1979. This family budget was 26 percent higher than the corresponding urban United States average, and was second only to Anchorage among major American metropolitan areas. The "lower" budget was 31 percent above the national figure; the "higher" budget, also 31 percent. Oahu-Mainland differentials in the intermediate budget were greatest for rents and personal income taxes and least for food away from home and automobile transportation. An "intermediate" budget for a retired couple in Honolulu came to $9,972 in the Autumn of 1979, 16 percent above the U.S. urban average.

The Honolulu consumer price index has been compiled by the United States Bureau of Labor Statistics since December 1963. This index measures the average change in prices of goods and services purchased by urban families and single persons living alone. Prices are expressed as a percent of the average levels reported in 1967, the base date. Current data for Honolulu and other cities are published in the Monthly Labor Review and CPI Detailed Report, issued monthly by BLS. A similar series for Honolulu was maintained by the Hawaii State Department of Labor and Industrial Relations from March 1943 to December 1963, using March 1943 as the base date.

Important changes were made in the consumer price index at the beginning of 1978. The existing index, covering urban wage earner and clerical families and single persons living alone, had been based on spending patterns observed in a 1961 survey and had been issued at three-month intervals. This index was discontinued after June 1978. Beginning in February 1978, two new indexes were published, both based on the findings of a 1972-1973 survey and both issued at two-month intervals. The first of these new indexes covered the same population as the older index, that is, urban wage earner and clerical families and individuals; the second covered all urban consumers. The new indexes were linked to the existing index for December 1977 (174.9) and, like the latter, expressed as a percent of the 1967 annual average. The June 1978 all-items index was 182.1 according to the old coverage and weights, 184.1 based on the previous coverage and revised weights, and 183.9 with the expanded coverage and new weights.

Comparisons of family budgets between Honolulu and various Mainland communities have most recently been made for the Fall of 1979. These data were compiled and published by the U.S. Bureau of Labor Statistics. Similar comparisons go back a number of years, and include a Honolulu-Los Angeles comparison for 1945, Honolulu-Washington comparisons for 1951 and 1955-1979, and a 40-area comparison for various dates since Autumn 1966. Budget costs for a retired couple have been prepared by BLS for Honolulu and the Mainland as of 1966, 1967, and annually since 1969. Cost of living adjustments for Federal employees in Hawaii are based on the Honolulu-Washington comparisons.

In addition to these data, the Bureau of Labor Statistics until recently published monthly and annual data on average prices for a wide variety of foods, and occasional data on a number of non-food items. The food price series were suspended after June 1978 but may be resumed at a later time.

No composite wholesale price index, comparable to the all-items consumer price index, is available for Hawaii. Average wholesale prices of agricultural products are reported in *Statistics of Hawaiian Agriculture*, issued by the Hawaii Agricultural Reporting Service, and *Honolulu Prices: Wholesale Eggs, Poultry, Pork, Beef and Rice* and *Wholesale Prices: Wholesale Fresh Fruits and Vegetables*, publication of the State Department of Agriculture, Market News Service. Wholesale price statistics of other commodities are less readily available, and in most cases totally lacking.

Data on prices and living costs for the nation as a whole and other areas are summarized in *Statistical Abstract of the United States: 1979*, Section 15. Long-term trends for Hawaii are traced in *Historical Statistics of Hawaii*, Section 5.

Table 253.-- CONSUMER PRICE INDEX (ALL ITEMS COMBINED), FOR HONOLULU: QUARTERLY, 1967 TO 1978

[Unrevised index for urban wage earners and clerical workers.
Annual average for 1967=100]

Year	Annual average	March	June	September	December
1967	100.0	98.9	99.7	100.6	101.8
1968	103.8	102.8	103.4	104.6	105.7
1969	108.5	107.2	108.2	109.6	111.0
1970	114.2	113.2	114.4	114.9	115.7
1971	118.9	116.7	118.5	121.2	121.1
1972	122.8	122.4	122.2	123.1	124.4
1973	128.3	126.0	127.5	129.6	132.8
1974	141.9	137.7	141.2	145.5	148.5
1975	155.0	151.9	154.3	157.6	159.8
1976	162.8	161.1	162.3	164.0	165.5
1977	171.0	168.3	170.5	173.4	174.9
1978 1/ ...	...	177.9	182.1	...	...

1/ The unrevised consumer price index was discontinued after June 1978. For the revised index, see the following table.

Source: U.S. Bureau of Labor Statistics, CPI Detailed Report (monthly) and Consumer Price Index-Pacific Cities and U.S. Average (monthly).

Table 254.-- CONSUMER PRICE INDEX (ALL ITEMS COMBINED), BY TYPE OF CONSUMER: BIMONTHLY, 1977 TO 1980

(1967 average = 100.)

Type of consumer and year	Annual average	February	April	June	August	October	December
All urban consumers:							
1977	...	...	...	...	...	...	174.9
1978	184.1	178.0	181.4	183.9	185.6	188.8	191.3
1979	204.6	196.2	200.7	204.4	207.2	210.5	214.8
1980		220.9	227.4	227.5	230.1		
Urban wage earners and clerical workers (revised):							
1977	...	...	...	...	...	...	174.9
1978	184.1	177.5	181.3	184.1	186.0	188.7	191.2
1979	204.5	196.0	200.0	203.6	207.2	211.1	215.5
1980		221.3	228.4	228.0	229.5		

Source: U.S. Bureau of Labor Statistics, San Francisco, Consumer Price Index - Pacific Cities & U.S. Average (monthly), as corrected.

Table 255.-- CONSUMER PRICE INDEX FOR ALL URBAN CONSUMERS, BY COMMODITY GROUPS, FOR HONOLULU: 1977 TO 1980

(Unless otherwise specified, 1967=100)

Groups	Annual averages			June 1980
	1977	1978	1979	
All items	171.0	184.1	204.6	227.5
Food and beverages	186.9	205.4	231.0	247.7
Food	193.0	212.8	239.8	256.7
Food at home	189.0	210.9	243.2	259.9
Cereals and bakery products	172.8	196.0	216.9	238.4
Meats, poultry, fish, and eggs	185.3	207.2	247.5	256.2
Meats, poultry, and fish	186.9	210.2	252.4	261.1
Dairy products	187.9	203.1	223.9	245.0
Fruits and vegetables	190.7	219.2	264.0	271.3
Other foods at home	214.0	235.7	259.0	292.3
Food away from home	204.5	218.9	236.1	253.5
Alcoholic beverages	136.7	143.4	155.5	171.6
Housing	160.3	171.7	192.7	216.6
Shelter	160.0	170.6	195.1	220.7
Rent, residential	163.5	174.1	187.3	205.6
Other rental costs	182.7	203.0	216.6	(NA)
Homeownership	157.6	167.5	195.1	222.3
Fuel and other utilities	175.5	201.0	209.0	237.6
Fuels	202.8	229.0	245.5	301.5
Fuel oil, coal, and bottled gas 1/	(NA)	102.5	117.4	(NA)
Gas (piped) and electricity	202.7	229.2	245.5	300.9
Household furnishings and operation	152.7	160.3	172.1	186.8
Apparel and upkeep	152.2	161.3	171.7	181.5
Apparel commodities	149.8	158.7	168.8	178.3
Men's and boys' apparel	150.3	158.7	164.9	175.3
Women's and girls' apparel	139.4	150.6	163.0	167.7
Footwear	151.0	163.7	171.1	176.9
Transportation	159.7	170.4	189.5	222.5
Private transportation	166.1	178.0	198.2	226.8
Public transportation	125.6	128.8	141.7	203.4
Medical care	203.0	221.0	238.7	256.8
Entertainment	170.8	177.7	187.5	200.8
Other goods and services	172.1	183.9	199.1	216.9
Personal care	177.8	189.9	205.9	225.8

Continued on next page.

Table 255.-- CONSUMER PRICE INDEX FOR ALL URBAN CONSUMERS, BY COMMODITY GROUPS, FOR HONOLULU: 1977 TO 1980 --Con.

(Unless otherwise specified, 1967=100)

Commodities and service groups	Annual averages 1977	1978	1979	June 1980
Commodities	167.6	179.5	201.5	223.5
Food and beverages	186.9	205.4	231.0	247.7
Commodities less food and beverages	151.9	160.0	179.5	202.8
Nondurables less food and beverages	164.5	173.5	193.5	223.7
Durables	136.9	143.5	161.6	179.5
Services	177.3	192.3	211.0	235.2
Medical care services	210.6	229.6	247.7	266.7
Special Indexes:				
All items less shelter	173.8	187.6	205.3	226.1
All items less medical care	168.9	181.7	202.2	225.1
All items less energy 2/	(NA)	105.2	116.5	127.8
Energy 1/	(NA)	100.4	117.7	154.9
Commodities less food	150.7	158.7	177.9	200.8
Nondurables less food	160.7	169.4	188.5	217.3
Nondurables	177.9	192.1	215.3	238.5
Services less rent	180.9	197.0	216.9	242.5
Services less medical care	171.2	185.3	203.6	227.8

NA Not available.
1/ June 1978=100.
2/ December 1977=100.

Source: U.S. Bureau of Labor Statistics, CPI Detailed Report, April 1979 and January 1980; "Consumer Price Index--Pacific Cities and U.S. Average--June 1980;" and records.

Table 256.-- CONSUMER PRICE INDEX FOR URBAN WAGE EARNERS AND CLERICAL WORKERS, BY COMMODITY GROUPS, FOR HONOLULU: 1977 TO 1980

(Unless otherwise specified, 1967=100)

Groups	Annual averages			June 1980
	1977	1978	1979	
All items	171.0	184.1	204.5	228.0
Food and beverages	186.9	205.3	230.7	249.3
Food	193.0	212.8	239.6	258.9
Food at home	189.0	211.7	242.2	262.9
Cereals and bakery products	172.8	194.8	215.0	234.4
Meats, poultry, fish, and eggs	185.3	210.3	251.0	260.8
Meats, poultry, and fish	186.9	213.6	256.2	265.9
Dairy products	187.9	203.4	223.7	245.5
Fruits and vegetables	190.7	219.1	252.7	278.2
Other foods at home	214.0	235.1	259.0	296.4
Food away from home	204.5	216.8	235.3	251.7
Alcoholic beverages	136.7	142.8	154.1	166.9
Housing	160.3	171.4	191.6	214.4
Shelter	160.0	169.1	192.4	216.0
Rent, residential	163.5	174.1	187.3	205.6
Other rental costs	182.7	204.6	218.4	(NA)
Homeownership	157.6	165.5	192.0	216.9
Fuel and other utilities	175.5	201.1	209.2	238.0
Fuels	202.8	229.0	245.9	301.7
Fuel oil, coal, and bottled gas 1/	(NA)	102.4	117.7	(NA)
Gas (piped) and electricity	202.7	229.1	245.9	301.2
Household furnishings and operation	152.7	164.0	178.8	195.4
Apparel and upkeep	152.2	159.3	169.2	190.9
Apparel commodities	149.8	156.5	165.5	188.4
Men's and boys' apparel	150.3	161.1	167.3	178.7
Women's and girls' apparel	139.4	139.2	142.6	149.0
Footwear	151.0	156.8	158.4	157.3
Transportation	159.7	170.0	189.6	222.4
Private transportation	166.1	177.4	198.0	227.8
Public transportation	125.6	128.9	141.8	204.2
Medical care	203.0	223.3	239.5	257.7
Entertainment	170.8	182.0	198.4	215.9
Other goods and services	172.1	182.1	197.0	212.3
Personal care	177.8	185.6	199.4	213.3

Continued on next page.

Table 256.-- CONSUMER PRICE INDEX FOR URBAN WAGE EARNERS AND CLERICAL WORKERS, BY COMMODITY GROUPS, FOR HONOLULU: 1977 TO 1980 -- Con.

(Unless otherwise specified, 1967=100)

Commodities and service groups	Annual averages			June 1980
	1977	1978	1979	
Commodities	167.6	179.5	201.8	225.6
Food and beverages	186.9	205.3	230.7	249.3
Commodities less food and beverages	151.9	159.8	179.7	205.2
Nondurables less food and beverages	164.5	173.5	195.2	232.0
Durables	136.9	143.1	161.0	177.7
Services	177.3	192.5	210.0	233.0
Medical care services	210.6	232.4	250.1	268.9
Special Indexes:				
All items less shelter	173.8	188.2	207.0	230.1
All items less medical care	168.9	181.6	202.1	225.6
All items less energy 2/	(NA)	105.2	116.3	127.6
Energy 1/	(NA)	100.3	118.5	156.7
Commodities less food	150.7	158.5	178.0	202.9
Nondurables less food	160.7	169.3	189.9	224.3
Nondurables	177.9	192.2	216.0	243.1
Services less rent	180.9	197.1	215.7	239.8
Services less medical care	171.2	185.2	202.4	225.3

NA Not available.

1/ June 1978=100.

2/ December 1977=100.

Source: U.S. Bureau of Labor Statistics, CPI Detailed Report, April 1979 and January 1980; "Consumer Price Index--Pacific Cities and U.S. Average--June 1980;" and records.

Table 257.-- RELATIVE IMPORTANCE OF COMPONENTS IN THE CONSUMER PRICE INDEXES FOR HONOLULU: DECEMBER 1978

(Percent of all items.)

Expenditure category	CPI-U	CPI-W
All items	100.000	100.000
Food and beverages	20.193	23.000
Food	19.120	21.755
Food at home	12.973	15.380
Cereals and bakery products	1.447	1.919
Meats, poultry, fish, and eggs	4.814	5.851
Meats, poultry, and fish	4.583	5.586
Dairy products	1.359	1.556
Fruits and vegetables	2.239	2.323
Other foods at home	3.113	3.730
Food away from home	6.147	6.375
Alcoholic beverages	1.073	1.245
Housing	46.408	41.548
Shelter	34.252	29.007
Rent, residential	7.269	6.812
Other rental costs	.591	.535
Homeownership	26.392	21.660
Fuel and other utilities	4.519	4.560
Fuels	2.773	2.817
Fuel oil, coal, and bottled gas	.039	.026
Gas (piped) and electricity	2.734	2.791
Household furnishings and operations	7.636	7.981
Apparel and upkeep	5.330	5.327
Apparel commodities	4.927	4.872
Men's and boys'	1.461	1.452
Women's and girls'	1.657	1.550
Infants' and toddlers'	.099	.119
Footwear	.721	.712
Transportation	14.679	17.043
Private	13.196	15.684
Gasoline	3.368	4.159
Public	1.483	1.359
Medical care	5.041	5.035
Entertainment	4.234	3.967
Other goods and services	4.115	4.080
Personal care	1.547	1.649

Continued on next page.

Table 257.-- RELATIVE IMPORTANCE OF COMPONENTS IN THE CONSUMER PRICE INDEXES FOR HONOLULU: DECEMBER 1978 -- Con.

Commodity and service group	CPI-U	CPI-W
All items	100.000	100.000
Commodities	55.943	59.634
Food and beverages	20.193	23.000
Commodities less food and beverages	35.750	36.634
Nondurables less food and beverages	14.920	16.215
Durables	20.831	20.419
Services	44.057	40.366
Medical care services	4.313	4.274
Special indexes:		
All items less shelter	65.748	70.993
All items less medical care	94.959	94.965
All items less energy	93.783	92.917
Energy	6.217	7.083
Commodities less food	36.824	37.879
Nondurables less food	15.993	17.460
Nondurables	35.113	39.215
Services less rent	36.787	33.554
Services less medical care	39.744	36.092

Source: U.S. Bureau of Labor Statistics, records.

Table 258.-- AVERAGE RETAIL PRICES OF FOOD IN HONOLULU: 1970 TO 1978

[In cents. Data are annual averages unless otherwise indicated. This series was suspended after June 1978.]

Food and unit	1970	1977	1978: May
Cereals and bakery products:			
Flour, white, all purpose .... 5 lb.	74.9	97.4	103.7
Rice, short grain .... 10 lb.	144.7	240.8	315.3
Bread, white .... lb.	29.7	48.4	50.9
Meats, poultry and fish:			
Steak, round, U.S. Choice .... lb.	128.5	200.9	225.1
Rib roast, U.S. Choice .... lb.	143.6	237.2	268.4
Chuck roast, U.S. Choice .... lb.	79.8	121.1	138.0
Hamburger .... lb.	86.5	119.1	131.7
Beef liver .... lb.	86.9	120.9	118.9
Veal cutlets .... lb.	...	...	207.1
Pork chops .... lb.	152.9	216.6	224.1
Ham, whole, smoked .... lb.	85.4	141.0	158.8
Bacon .... lb.	108.9	183.1	210.3
Frying chicken, whole or cut-up ..... lb.	68.4	98.0	97.5
Mahimahi, fresh or frozen .... lb.	89.4	160.5	190.0
Dairy products:			
Milk, fresh, vit. D, grocery ... 1/2 gal.	67.0	113.3	119.7
Milk, evaporated .... 14 1/2-oz. can	21.9	40.5	43.3
Butter .... lb.	95.5	140.0	154.4
Fruits and vegetables:			
Apples, all purpose .... lb.	37.6	57.5	65.0
Bananas .... lb.	26.3	40.1	44.8
Papayas .... lb.	21.8	45.0	55.6
Potatoes .... 10 lb.	193.0	261.2	242.8
Onions, yellow .... lb.	19.4	35.7	39.3
Cabbage .... lb.	12.0	27.6	23.2
Tomatoes .... lb.	47.3	84.4	93.9
Peas, green .... #303 can	32.9	48.2	49.0
Tomatoes .... #2 1/2 can	40.1	83.8	81.2
Dried beans .... lb.	26.4	63.3	71.1
Other foods at home:			
Eggs, grade A, large .... dozen	76.2	105.7	103.9
Margarine .... lb.	38.1	72.1	76.4
Sugar, white .... 5 lb.	68.3	116.5	133.4
Coffee .... 1-lb. can	103.7	408.0	381.4
Chicken soup .... 10 1/2-oz. can	21.1	27.9	27.9

Source: U.S. Bureau of Labor Statistics, Estimated Retail Food Prices by City (annual, 1970-1977) and Estimated Average Retail Food Prices--Pacific Region (monthly, 1978).

Table 259.-- COMPARATIVE FAMILY BUDGETS FOR HONOLULU: 1966 TO 1979

Type of family and date	Cost of budget (dollars)			Percent of U.S. urban average		
	Lower budget	Inter- mediate budget	Higher budget	Lower budget	Inter- mediate budget	Higher budget
URBAN FAMILY OF FOUR PERSONS						
1966: Autumn	...	11,190	...	...	122	...
1967: Spring	7,246	10,902	16,076	122	120	123
1969: Spring	8,135	12,118	18,315	124	120	126
1970: Spring	8,597	12,776	19,311	124	120	125
1971: Autumn	8,990	13,108	19,700	125	119	124
1972: Autumn	9,118	13,617	20,579	123	119	124
1973: Autumn	9,924	14,937	21,901	121	118	120
1974: Autumn	11,383	17,019	25,572	124	119	123
1975: Autumn	12,226	18,694	28,302	128	122	127
1976: Autumn	12,711	19,633	30,086	127	121	127
1977: Autumn	13,280	20,883	31,897	127	122	127
1978: Autumn	14,870	23,099	35,602	129	124	130
1979: Autumn	16,507	25,799	39,689	131	126	131
RETIRED COUPLE						
1966: Autumn	...	4,434	...	...	115	...
1967: Spring	3,110	4,429	7,219	116	115	120
1969: Spring	3,401	4,884	7,849	116	115	118
1970: Spring	3,562	5,166	8,312	115	115	117
1971: Autumn	3,875	5,538	8,621	117	116	116
1972: Autumn	3,927	5,633	8,717	114	113	113
1973: Autumn	4,221	6,038	8,844	112	112	110
1974: Autumn	4,801	6,796	9,918	114	112	111
1975: Autumn	5,168	7,339	10,726	115	114	112
1976: Autumn	5,397	7,691	11,318	115	114	113
1977: Autumn	5,711	8,107	11,882	114	113	111
1978: Autumn	6,357	8,987	13,085	115	115	113
1979: Autumn	7,040	9,972	14,508	117	116	115

Source: U.S. Bureau of Labor Statistics, Autumn 1979 Urban Family Budgets and Comparative Indexes for Selected Urban Areas (release USDL: 80-278, April 30, 1980), Three Budgets for a Retired Couple, Autumn 1979 (release USDL: 80-517, August 25, 1980), and corresponding releases for earlier years.

Table 260.-- ANNUAL BUDGETS FOR THREE LEVELS OF LIVING FOR A FOUR-PERSON FAMILY ON OAHU: AUTUMN 1979

Item	Cost of budget (dollars)			Percent of urban U.S. average		
	Lower budget	Intermediate budget	Higher budget	Lower budget	Intermediate budget	Higher budget
Total budget 1/	16,507	25,799	39,689	131	126	131
Total consumption	12,604	18,039	25,201	123	117	120
Food	5,039	6,339	8,103	129	126	127
At home	4,528	5,517	6,642	135	131	132
Away from home	511	822	1,461	93	100	110
Housing 2/	3,367	5,583	8,774	140	122	126
Shelter 3/	2,639	4,389	6,363	146	123	133
Renter costs 4/	2,639	3,321	4,857	146	142	132
Homeowner costs 5/	...	4,745	6,629	...	119	133
Housefurnishings & operations	728	1,194	2,140	122	117	111
Transportation 6/	1,011	1,925	2,561	101	104	106
Automobile owners	1,453	1,925	2,561	107	99	106
Clothing	936	1,290	1,812	108	104	100
Personal care	375	494	699	116	114	114
Medical care 7/	1,249	1,254	1,307	107	107	107
Other family consumption 8/	627	1,154	1,945	114	113	115
Other items 9/	610	971	1,684	113	111	114
Social security & disability payments	1,074	1,467	1,467	138	117	104
Personal income taxes	2,219	5,322	11,337	215	176	178

See footnotes on next page.

Table 260.-- ANNUAL BUDGETS FOR THREE LEVELS OF LIVING FOR A FOUR-PERSON FAMILY ON OAHU: AUTUMN 1979 -- Con.

1/ Among the 25 metropolitan areas for which separate indexes were reported, Honolulu ranked second in total budget costs at all three levels, exceeded only by Anchorage.

2/ Housing includes shelter, housefurnishings and household operations. The higher budget also includes an allowance for lodging away from Oahu.

3/ The average costs of shelter were weighted by the following proportions: lower budget, all families living in rented dwellings; intermediate budget, 25 percent in rented dwellings; higher budget, 15 percent renters.

4/ Includes average contract rent, heating fuel, gas, electricity, water, specified equipment, and insurance on household contents.

5/ Includes interest and principal payments plus taxes; insurance on house and contents; water, refuse disposal, heating fuel, gas, electricity, and specified equipment; and home repair and maintenance costs.

6/ Based on 65 percent of the lower budget families and all of the intermediate and higher budget families owning automobiles.

7/ Based on 30 percent of all families paying full cost of medical insurance 26 percent paying half cost, and 44 percent covered by noncontributory insurance plans (paid by employer).

8/ Includes reading, recreation, tobacco products, alcoholic beverages, education, and miscellaneous expenditures.

9/ Includes gifts and contributions, life insurance and occupational expenses.

Source: U.S. Bureau of Labor Statistics, Autumn 1979 Urban Family Budgets and Comparative Indexes for Selected Urban Areas (release USDL: 80-278, April 30, 1980).

Table 261.-- ANNUAL BUDGETS FOR THREE LEVELS OF LIVING FOR A RETIRED COUPLE ON OAHU: AUTUMN 1979

(For a retired husband and wife, age 65 years or over. Excludes personal income taxes.)

Item	Cost of budget (dollars)			Percent of U.S urban average		
	Lower budget	Intermediate budget	Higher budget	Lower budget	Intermediate budget	Higher budget
Total budget 1/	7,040	9,972	14,508	117	116	115
Total family consumption	6,737	9,372	13,430	117	116	115
Food	2,483	3,247	4,151	132	130	132
At home	2,342	2,945	3,547	135	132	133
Away from home	141	302	604	97	109	124
Housing 2/	2,100	3,145	4,939	105	110	110
Shelter 3/	1,477	1,886	2,757	98	102	105
Renter costs 4/	1,983	2,741	3,761	143	150	136
Homeowner costs 5/	1,139	1,425	2,326	72	77	91
Housefurnishings, operations	623	1,259	2,052	127	124	119
Transportation 6/	615	1,015	1,592	146	124	104
Clothing	232	384	553	103	102	95
Personal care	186	271	396	110	110	109
Medical care	848	855	862	101	102	102
Other family consumption 7/	273	455	937	117	117	122
Other items 8/	303	600	1,078	117	117	113

Footnotes and source on next page.

Table 261.-- ANNUAL BUDGETS FOR THRE LEVELS OF LIVING FOR A RETIRED COUPLE ON OAHU: AUTUMN 1979 -- Con.

1/ Among the 25 metropolitan areas for which separate indexes were reported, Honolulu ranked second at the lower level, third at the intermediate level, and fourth at the higher level.

2/ Housing includes shelter, housefurnishings and household operations. The higher budget also includes an allowance for lodging away from Oahu.

3/ The average costs of shelter were weighted by the following proportions: lower budget, 40 percent living in rented dwellings; intermediate budget, 35 percent in rented dwellings; higher budget, 30 percent in rented dwellings.

4/ Includes average contract rent, heating fuel, gas electricity, water, specified equipment, and insurance on household contents.

5/ Includes property taxes; insurance on house and contents; water, refuse disposal, heating fuel, gas, electricity, and specified equipment; and home repair and maintenance costs. Assumes all mortgage payments have been completed prior to retirement.

6/ Based on 45 percent of the lower budget families, 60 percent of the intermediate budget families, and all of the higher budget families owning automobiles.

7/ Includes reading, recreation, tobacco products, alcoholic beverages, and miscellaneous expenditures.

8/ Includes gifts and contributions. The higher level also includes an allowance for life insurance.

Source: U.S. Department of Labor, Bureau of Labor Statistics, Three Budgets for a Retired Couple, Autumn 1979 (release, USDL: 80-517, August 25, 1980).

Table 262.-- COST OF LIVING INDEXES AND PAY DIFFERENTIALS FOR FEDERAL EMPLOYEES IN HAWAII RELATIVE TO WASHINGTON, D.C.: 1980

Allowance category 1/	Oahu	Kauai	Molokai	Maui and Lanai	Hawaii
Indexes 2/					
Local retail:					
Private housing	115.9	116.1	112.3	115.5	108.8
Federal housing	103.7	111.1	105.9	110.4	106.0
Commissary, PX:					
Private housing	104.9	115.5	...	...	...
Federal housing	92.7	110.5	...	...	...
Allowance rates 3/					
Local retail:					
Private housing	15.0	15.0	12.5	15.0	10.0
Federal housing	0	10.0	5.0	10.0	5.0
Commissary, PX:					
Private housing	0	15.0	...	...	...
Federal housing	0	10.0	...	...	...

1/ Based on access to military commissary and exchange facilities and type of housing occupied. "Local retail" refers to Federal employees who purchase goods and services from private retail establishments; "commissary, PX," to Federal employees who have unlimited access to and who use military commissary and exchange facilities. "Private housing" refers to Federal employees who occupy housing units that are privately owned or rented; "Federal housing," to Federal employees who occupy units owned or leased by a Federal agency.

2/ Washington, D.C., living costs=100. Based on a survey of comparative costs for Federal employees in 1980.

3/ Authorized allowance rate, expressed as a percentage differential, effective September 21, 1980.

Source: U.S. Office of Personnel Management, "Nonforeign Area Cost of Living Allowances for Guam and the State of Hawaii and Post Differentials for Eligible Areas," Federal Personnel Manual System, FPM Letter 591-37 (September 12, 1980).

Section 14

ELECTIONS

This section presents data on the number and characteristics of election districts, registered voters, votes cast, elected officials, and legislative bills.

More than 395,000 persons were registered to vote in the general election of November 7, 1978, and more than 292,000 actually voted. The number voting amounted to 40 percent of the 631,000 Hawaii residents of voting age at that time. The latter figure included numerous aliens, inmates of mental and penal institutions, and members of the armed forces and their dependents, groups that are either ineligible or unlikely to vote in Island elections. Among registered voters, females slightly outnumbered males and Democrats were far more numerous than Republicans.

A constitutional convention was convened on July 5, 1978. All of the constitutional amendments proposed by the convention were subsequently approved by the electorate.

Hawaii has 2 Congressional, 8 Senatorial, 27 Representative, and 12 Councilmanic districts. It also contains 15 Soil Conservation districts, 32 Neighborhood Board areas, and 241 election precincts.

Elective offices in Hawaii include the President, 2 U.S. Senators, 2 U.S. Representatives, the Governor, 25 State Senators, 51 State Representatives, and various county officials. The minimum voting age is 18 years.

The 1980 State Legislature, with 76 members, included 66 males, 30 persons under 40 years of age, 34 persons of Japanese ancestry, 11 persons born in places other than Hawaii, and 60 Democrats.

In its 1979 session, the State Legislature considered 3,584 bills; 230 were passed and 216 became law. The Legislature also considered 1,533 resolutions, of which 749 were approved.

The official results of primary, general, and special elections are published by the Office of the Lieutenant Governor. Additional information is often available from the various County clerks. In October 1978, the Department of Planning and Economic Development issued its Statistical Report 127, Potential Voters in Hawaii, November 1978. Characteristics of individual precincts are described in 1976 Hawaii Voting Behavior, compiled by Daniel W. Tuttle, Jr., and published by the Public Affairs Advisory Services, Inc., on May 31, 1978. Earlier figures for Hawaii appear in Historical Statistics of Hawaii, Section 24. National statistics appear in the Statistical Abstract of the United States: 1979, Section 16.

Table 263.-- NUMBER OF ELECTION DISTRICTS, BY COUNTIES AND ISLANDS: FEBRUARY 1980

County and island	Senatorial districts	Representative district	Councilmanic districts 1/	Soil conservation districts	Neighborhood board areas 2/	Precincts
State total	8	27	12	15	32	241
Counties:						
Hawaii	1	4	1	5	-	52
Maui	1	2	1	5	-	30
Kalawao			-	-	-	1
Honolulu	5	20	9	3	32	145
Kauai	1	1	1	2	-	13
Islands:						
Hawaii	1	4	1	5	-	52
Maui	1	2	1	4	-	25
Lanai.............				1	-	1
Molokai					-	5
Oahu	5	20	9	3	32	145
Kauai	1	1	1	2	-	12
Niihau					-	1
Northwestern Hawaiian Islands.	(0)	(0)	(0)	-	-	(0)

0 Included with Oahu

1/ Although Hawaii and Maui County are not divided into councilmanic districts, council members are elected at large by specific areas.

2/ Includes 4 inactive boards.

Source: Office of the Lieutenant Governor, records.

Table 264.-- POPULATION OF VOTING AGE AND PERCENT VOTING: NOVEMBER 1960 TO 1980

(Resident population 20 years old and over through 1970 and 18 years and over in 1972 and later years. Includes armed forces stationed in Hawaii.)

Year (Nov.)	Persons of voting age	Percent casting votes		Subject	Persons of voting age
		For Presidential Electors	For U.S. Representatives		
1960	371,000	49.7	49.2	Age, 1980:	
1962	390,000	...	49.9	18 to 24 years	146,000
1964	404,000	51.3	56.9	25 to 44 years	261,000
1966	417,000	...	49.9	45 to 64 years	176,000
1968	439,000	53.8	55.3	65 years and over	74,000
1970	473,000	...	44.0		
1972	536,000	50.4	51.3	Race, 1980:	
1974	574,000	...	45.2	White	244,000
1976	605,000	48.2	48.6	Black	9,000
1978	631,000	...	40.2	Other	404,000
1980	657,000	...	...		

Source: U.S. Bureau of the Census, "Projections of the Population of Voting Age for States; November 1980," Current Population Reports, Series P-25, No. 879, March 1980.

Table 265.-- ESTIMATED POPULATION AND REGISTERED VOTERS, BY CONGRESSIONAL DISTRICTS: 1978

Congressional district 1/	Resident population: July 1	Registered voters: Nov.	Percent increase, 1970-1978 2/		Percent deviation from State average,	
			Population	Regist. voters	Population	Regist. voters
State	897,000	395,262	16.5	35.5	...	...
First	395,000	177,987	6.3	18.8	-11.8	-9.9
Second	501,000	217,275	25.8	53.1	11.8	9.9

1/ The First District consists of the area southwest of the crest of the Koolau Mountains, between Kalauao Stream and Makapuu Point, and includes Aiea, Hickam Housing, and Honolulu. The Second District includes the remainder of Oahu and the Counties of Hawaii, Kalawao, Kauai, and Maui. See HRS, 1976, Section 18-1.

2/ Based on 1978 boundaries. The boundary between the First and Second Districts was shifted in 1972 from Aiea Stream to Kalauao Stream, thus transferring Aiea from the Second District to the First. Percentages refer to a 99-month period (April 1, 1970 to July 1, 1978) for population and a 96-month period (November 3, 1970 to November 7, 1978) for registered voters.

Source: U.S. Bureau of the Census, *U.S. Census of Population and Housing: 1970*, Final Report PHC (1)-88, table 1, and "New Census Population Estimates Indicate Extensive Congressional Re-districting After 1980" (Release CB79-137, August 1, 1979); Office of the Lieutenant Governor, *Result of Votes Cast, General Election, State of Hawaii* for November 3, 1970 and November 7, 1978.

Table 266.-- CITIZENS 18 YEARS OLD AND OVER REPORTED REGISTERED AND VOTING, BY RACE AND ETHNIC ORIGIN, FOR THE CITY AND COUNTY OF HONOLULU: NOVEMBER 1976

[Based on a sample of 2,291 households and subject to considerable sampling variation. For standard errors, see source.]

Race and ethnic origin 1/	U.S. citizen					Not a U.S. citizen	Percent of citizens reported--			
	Total citizens	Reported registered		Reported voted			Registered		Voted	
		Total	In this jurisdiction	Total	In this jurisdiction		Total	In this jurisdiction	Total	In this jurisdiction
All races 2/	447,266	305,679	272,496	276,675	254,997	42,982	68.3	60.9	61.9	57.0
White	164,132	110,894	85,551	97,753	80,545	3,733	67.6	52.1	59.6	49.1
Black	7,360	2,789	1,270	1,704	1,270	-	37.9	17.3	23.2	17.3
American Indian	8,052	4,038	2,662	3,530	2,588	331	50.1	33.1	43.8	32.1
Chinese	51,606	37,937	37,285	35,379	34,836	4,554	73.5	72.2	68.6	67.5
Japanese	136,053	98,580	96,278	91,232	89,839	10,043	72.5	70.8	67.1	66.0
Filipino	35,241	23,428	22,596	21,177	20,743	15,110	66.5	64.1	60.1	58.9
Korean	7,008	4,855	4,855	4,452	4,452	3,506	69.3	69.3	63.5	63.5
Other races	37,814	23,158	21,999	21,448	20,724	5,705	61.2	58.2	56.7	54.8
Spanish heritage 3/	11,187	5,891	4,357	4,798	3,955	956	52.7	38.9	42.9	35.4
Spanish origin 4/	17,795	9,192	7,587	8,099	7,041	551	51.7	42.6	45.5	39.6

1/ Treatment of part Hawaiians and other persons of mixed race not indicated in source.

2/ The number of voters in this jurisdiction, based on election returns rather than survey results, was 234,088, or 52.3 percent of the citizens 18 years of age and older; the survey thus overstated voter participation by 20,909.

3/ Persons who reported that Spanish was the language usually spoken in their homes when they were children, or persons in families in which the husband or wife reported Spanish as his or her mother tongue.

4/ Persons of Mexican, Puerto Rican, Cuban, Central or South American, or other Spanish origin or descent.

Source: U.S. Bureau of the Census, "Registration and Voting in November 1976 -- Jurisdictions Covered by the Voting Rights Act Amen[illegible]s of 1975," Current Population Reports, Special Studies, Series P-23, No. 74, September 1978, pp. 6, 15, and [illegible]2.

Table 267.-- REGISTERED VOTERS AND VOTES CAST IN PRIMARY, GENERAL, AND SPECIAL ELECTIONS: 1968 TO 1978

Type and date of election	Registered voters 1/			Votes cast		Percent of civilian population 2/	
	Both sexes	Male	Female	Number	Percent of reg. voters	Registered	Voting
Primary elections:							
1968: Oct. 5	265,253	...	...	166,271	62.7	39.2	24.5
1970: Oct. 3	282,472	...	...	202,401	71.7	39.1	28.0
1972: Oct. 7	326,906	...	...	203,160	62.1	42.4	26.3
1974: Oct. 5	333,527	...	...	235,982	70.8	41.8	29.6
1976: Oct. 2	353,249	175,276	177,973	251,457	71.2	42.8	30.5
1978: Oct. 7	387,673	190,796	196,877	289,029	74.6	46.1	34.4
General elections:							
1968: Nov. 5	274,199	137,863	136,302	239,765	87.4	40.5	35.4
1970: Nov. 3	291,681	146,630	145,051	247,740	84.9	40.4	34.3
1972: Nov. 7	337,837	169,896	167,941	286,593	84.8	43.8	37.2
1974: Nov. 5	343,404	171,072	172,332	272,545	79.4	43.0	34.2
1976: Nov. 2 3/	363,045	180,265	182,780	309,025	85.1	44.0	37.4
1978: Nov. 7	395,262	194,412	200,850	292,690	74.0	47.0	34.8
Special elections: 4/							
1968: June 1	242,827	...	...	110,370	45.5	35.8	16.3
1978: May 20	344,952	169,787	175,165	119,250	34.6	41.1	14.2

1/ Data by sex not available for primary elections before 1976 and the Constitutional Convention election of 1968. Data by sex for November 5, 1968 do not add exactly to the published total.

2/ Based on official estimates as of July 1.

3/ Number voting excludes 64 unregistered votes cast (overseas and nonresident).

4/ Constitutional Conventions of 1968 and 1978.

Source: Office of the Lieutenant Governor, Result of Votes Cast for each election. Registered voters by sex for the 1968 general election from unpublished data.

Table 268.-- PARTY OF VOTERS REGISTERED FOR GENERAL ELECTIONS: 1970 TO 1978

General election	All registered voters	Democratic	Republican	Other parties	Non-partisan	Non-affiliated
1970: Nov. 3 1/	291,681	133,479	36,787	-	-	121,415
1972: Nov. 7	337,837	171,374	46,890	-	-	119,573
1974: Nov. 5	343,404	190,270	47,815	18	154	105,147
1976: Nov. 2	363,045	215,321	41,849	138	273	105,464
1978: Nov. 7	395,262	241,456	37,663	400	552	115,191

1/ Earliest year available.

Source: Office of the Lieutenant Governor, Result of Votes Cast, General Election, State of Hawaii for 1970 (p. 79), 1972 (p. 98), 1974 (p. 89), 1976 (p. 134), and 1978 (p. 157).

Table 269.-- REGISTERED VOTERS AND VOTES CAST IN PRIMARY AND GENERAL ELECTIONS, BY COUNTIES: 1978

Election and county	Registered voters			Votes cast		Percent of civilian population 1/	
	Both sexes	Male	Female	Number	Percent of reg. voters	Registered	Voting
PRIMARY ELECTION							
State total	387,673	190,796	196,877	289,029	74.6	46.1	34.4
Hawaii	41,149	20,491	20,658	30,875	75.0	51.0	38.3
Maui	31,552	15,724	15,828	23,409	74.2	51.4	38.1
Honolulu	295,581	144,871	150,710	219,379	74.2	44.5	33.1
Kauai	19,391	9,710	9,681	15,366	79.2	56.2	44.5
GENERAL ELECTION							
State total	395,262	194,412	200,850	292,690	74.0	47.0	34.8
Hawaii	41,837	20,820	21,017	32,852	78.5	51.8	40.7
Maui	32,002	15,924	16,078	24,184	75.6	52.1	39.4
Honolulu	301,758	147,824	153,934	219,584	72.8	45.5	33.1
Kauai	19,665	9,844	9,821	16,070	81.7	57.0	46.6

1/ Based on July 1 estimate.

Source: Office of the Lieutenant Governor, Result of Votes Cast, for each election.

Table 270.— VOTES CAST FOR CANDIDATES FOR MAJOR OFFICES: PRIMARY ELECTION, OCTOBER 7, 1978

Office, party, and candidate	Votes
GOVERNOR	
Democrat:	
George R. Ariyoshi	130,527
Frank F. Fasi	126,903
Billy Kuaiwa	1,363
Valentine Huihui	685
Republican:	
John Leopold	20,524
Valentine K. Wessel, Sr.	1,093
Gabriel Juarez, Jr.	799
Aloha Democratic:	
John Moore	95
Libertarian:	
Gregory Reeser	55
Non-Partisan:	
Alema Leota	236
Frank Pore, Jr.	168
LIEUTENANT GOVERNOR	
Democrat:	
Jean Sadako King	72,279
Wayne K. Nishiki	70,582
Billie Beamer	59,600
David C. McClung	28,031
Van Diamond	20,581
William Masao Toyama	1,216
Virginia Teipel	1,002
James Silva	772
Mildred W. Shimabuku	630
Republican:	
Virginia Isbell	10,020
Lionel Kaipo Hanakahi	4,794
Richard E. Mello	4,346
Aloha Democratic:	
Lewis Goldstein	89
Libertarian:	
Lloyd George Silva	52
Non-Partisan:	
Mamu Taylor	309

Table 270.-- VOTES CAST FOR CANDIDATES FOR MAJOR OFFICES: PRIMARY ELECTION, OCTOBER 7, 1978 -- Cont.

Office, party, and candidate	Votes
REPRESENTATIVE TO CONGRESS, DISTRICT 1	
Democrat:	
Cecil Heftel	92,597
John K. Larson	10,621
Anthony G. Montero	2,817
Republican:	
Bill Spillane	5,998
Spencer James Cabral	3,455
Aloha Democratic:	
Debra Figueroa	27
Libertarian:	
Pete Larsen	33
REPRESENTATIVE TO CONGRESS, DISTRICT 2	
Democrat:	
Daniel K. Akaka	112,704
Republican:	
Charles Isaak	8,658
Libertarian:	
Amelia Lew Fritts	16

Source: Office of the Lieutenant Governor, Result of Votes Cast, Primary Election, Saturday, October 7, 1978, State of Hawaii.

Table 271.-- VOTES CAST FOR MAJOR OFFICES: GENERAL ELECTIONS, 1974 TO 1978

Election and office	Democratic party		Republican party		Other parties	
	Candidate	Votes	Candidate	Votes	Candidate	Votes
November 5, 1974:						
Governor	Ariyoshi .	136,262	Crossley .	113,388	None	...
U.S. Senator	Inouye, D.	207,454	None	...	Kimmel 1/	42,767
U.S. Representative, Dist. 1	Matsunaga	71,552	Paul	49,065	None	...
U.S. Representative, Dist. 2	Mink	86,916	Coray	51,894	None	...
November 2, 1976:						
President	Carter ...	147,375	Ford	140,003	MacBride 2/	3,923
U.S. Senator	Matsunaga	162,305	Quinn	122,724	Others 3/.	17,063
U.S. Representative, Dist. 1	Heftel ...	60,050	Rohlfing .	53,745	Hashijo 4/	23,807
U.S. Representative, Dist. 2	Akaka	124,116	Inouye, H.	23,917	Others 5/ .	8,066
November 7, 1978:						
Governor	Ariyoshi .	153,394	Leopold ..	124,610	Others 6/ .	3,583
U.S. Representative, Dist. 1	Heftel ...	84,552	Spillane .	24,470	Others 7/ .	6,390
U.S. Representative, Dist. 2	Akaka	118,272	Isaak	15,697	Fritts 2/ .	3,988

1/ People's.

2/ Libertarian.

3/ Hodges (People's), 14,226; Kimmel (nonpartisan), 1,433; Johnson (Libertarian), 1,404.

4/ Independents for Godly Government.

5/ Penaroza (Independents for Godly Government), 3,461; Cate (People's), 2,408; Smith (Libertarian), 2,197.

6/ Leota (nonpartisan), 1,982; Reeser (Libertarian), 1,059; Moore (Aloha Democratic), 542.

7/ Larsen (Libertarian), 4,295; Figueroa (Aloha Democratic), 2,095.

Source: Office of the Lieutenant Governor, Result of Votes Cast, General Election, State of Hawaii (biennial).

Table 272.-- ELECTED OFFICIALS, BY LEVEL OF GOVERNMENT: 1967 AND 1977

Level of government	1967	1977
State	89	87
City and County of Honolulu	10	10
Counties of Hawaii, Kauai, and Maui	34	30
Soil and Water Conservation Districts	45	45
Neighborhood Boards	-	299

Source: U. S. Bureau of the Census, 1977 Census of Governments, Vol. 1, No. 2, Popularly Elected Officials, GC77 (1)-2, pp. 10-11, as corrected by the Office of the Lieutenant Governor.

Table 273.-- COMPOSITION OF CONSTITUTIONAL CONVENTIONS: 1894 TO 1978

Characteristic	1894 1/	1950	1968	1978
All delegates	38	63	82	102
Island of residence:				
Oahu	26	36	63	78
Other islands	12	27	19	24
Place of birth:				
Hawaii	19	50	63	71
Other places	17	11	12	31
Not available	2	2	7	-
Age when convention began:				
Under 45 years	16	21	41	64
45 years and over	20	14	41	38
Not available	2	28	-	-
Sex:				
Male	38	58	74	72
Female	-	5	8	30
Ethnic stock:				
Hawaiian or Part Hawaiian	6	9	8	15
Caucasian, except Portuguese	29	25	19	30
Portuguese	3	5	4	3
Chinese	-	5	7	9
Filipino	-	-	4	2
Japanese	-	19	37	41
Other groups 2/	-	-	3	2

1/ Includes 3 persons who served only partial terms (one who resigned on the third day, his replacement, and one excused after the seventeenth day).

2/ Includes persons of mixed race other than Part Hawaiians.

Source: Robert C. Schmitt, "Demographic Characteristics of Hawaii's Constitutional Conventions" (unpublished paper, January 29, 1980).

Table 274.-- COMPOSITION OF THE 1980 HAWAII STATE LEGISLATURE

Subject	House of Representatives			Senate		
	Total	Democrats	Republicans	Total	Democrats	Republicans
All members	51	42	9	25	18	7
Island of residence:						
Hawaii	5	5	-	3	3	-
Maui	4	4	-	2	2	-
Lanai	-	-	-	-	-	-
Molokai	-	-	-	-	-	-
Oahu	39	30	9	19	12	7
Kauai	3	3	-	1	1	-
Niihau	-	-	-	-	-	-
Year born:						
1919 or earlier ...	2	1	1	3	2	1
1920 to 1929	8	7	1	7	5	2
1930 to 1939	14	10	4	12	8	4
1940 to 1949	16	14	2	3	3	-
1950 or later	11	10	1	-	-	-
Sex:						
Male	44	39	5	22	17	5
Female	7	3	4	3	1	2
Ethnic stock:						
Caucasian, except Portuguese	6	5	1	5	3	2
Chinese	2	2	-	3	2	1
Filipino	1	1	-	1	1	-
Japanese	23	22	1	11	9	2
Negro	-	-	-	1	1	-
Portuguese	2	1	1	1	-	1
Other (unmixed) 1/	-	-	-	-	-	-
Mixed: Part-Hawaiian	8	6	2	3	2	1
Mixed: Non-Hawaiian	9	5	4	-	-	-
Place of birth:						
Hawaii	44	37	7	21	16	5
Mainland U.S.	6	4	2	4	2	2
U.S. terr. or poss.	-	-	-	-	-	-
Foreign country ...	1	1	-	-	-	-

1/ Hawaiian (unmixed), Korean, Puerto Rican, Samoan, and other unspecified groups.

Source: Office of the Lieutenant Governor, records.

Table 275.-- PARTY MEMBERSHIP OF THE STATE LEGISLATURE: 1969 TO 1979

Regular session	House of Representatives				Senate			
	Total	Democrats	Republicans	Vacant seats	Total	Democrats	Republicans	Vacant seats
1969	51	38	12	1	25	17	8	-
1971	51	34	17	-	25	16	8	1
1973	51	35	16	-	25	17	8	-
1975	51	35	16	-	25	18	7	-
1977 1/ ..	51	41	10	-	25	18	7	-
1979	51	42	9	-	25	18	7	-

1/ Forty Democrats and 11 Republicans were elected to the House of Representatives in the general election of November 1976. In January 1977, however, one Republican changed his affiliation to Democrat.

Source: Session Laws of Hawaii, 1969-1977; Office of the Lieutenant Governor, records.

Table 276.-- LEGISLATIVE BILLS AND RESOLUTIONS, BY DISPOSITION: 1979 AND 1980

Action	1979 regular session		1980 regular session	
	Senate 1/	House	Senate 2/	House
Bills:				
Carried over from previous year ..	-	-	1,749	1,605
Introduced	1,825	1,759	1,321	1,295
Passed	76	154	116	201
Vetoed	5	9	2	4
Became law	71	145	112	197
Resolutions:				
Offered	517	710	386	633
Adopted	287	397	283	427
Concurrent resolutions:				
Offered	123	183	64	153
Adopted	20	45	18	38

1/ Senate Bill 578, which proposes an amendment to the Hawaii State Constitution, was also passed.

2/ Senate Bills 1703 and 1973, which propose amendments to the Hawaii State Constitution, were also passed.

Source: Legislative Reference Bureau, records.

Section 15

BANKING, INSURANCE, AND BUSINESS ENTERPRISE

Statistics in this section relate to banks and other financial institutions, stocks and bonds, insurance, fires, and business firms.

There were nine banks with 170 branches, nine savings and loan associations with 128 branches, three trust companies, and 243 industrial loan or small loan licensees in Hawaii as of June 30, 1979. Deposits in Island banks reached $3.9 billion in 1979, compared with $1.5 billion a decade earlier. Assets of savings and loan associations stood at $3.4 billion in mid-1979, more than five times their 1969 level. There were 159 credit unions with combined assets of $755 million at the end of 1979.

The market value of stocks and bonds traded on the Honolulu Stock Exchange in 1977 amounted to $298,000, the lowest total on record, and the Exchange discontinued operations at the end of the year. Approximately 58,000 Hawaii residents held shares in U.S. public corporations or investment companies in 1975.

Life insurance in force in Hawaii at the end of 1978 amounted to $15.8 billion, triple the figure reported ten years earlier. For all 556 insurance companies doing business in the Islands, Hawaii premiums amounted to $555 million in 1978 and losses, claims, and benefits paid came to only $240 million. Oahu fire losses amounted to $8.0 million in fiscal 1978. Persons covered by the two major prepaid health insurance plans as of December 31, 1979, numbered 644,000, with membership dues of $181 million.

By mid-1979, more than 31,200 corporations and partnerhships were registered to do business in Hawaii: 21,100 local ("domestic") corporations, 3,100 out-of-State ("foreign") corporations, and 7,000 partnerships. Business units with one or more employees in 1977 numbered 18,660; 92 had 250 or more employees. During fiscal 1979, 3,233 new local corporations were formed and 1,168 existing local corporations were dissolved or merged. Business receipts of corporations approached $9.6 billion in 1976; business receipts of proprietorships in 1977 amounted to $840 million. Hawaii's largest corporation, Amfac, Inc., reported 1979 sales of $1.7 billion, with a net profit of $56 million.

Sources for statistics on these subjects include the Hawaii State Department of Regulatory Agencies (specifically its Bank Examination, Insurance, and Business Registration Divisions), the State Department of Taxation, the Honolulu Fire Department, the New York Stock Exchange, the Health Insurance Institute and two major local health insurance plans, the Hawaii Credit Union League, and the annual report on County Business Patterns issued by the U.S. Bureau of the Census. Historical Statistics of Hawaii, Sections 22 and 23, provides information for earlier periods. Comparable Mainland data appear in Sections 17 and 18 of Statistical Abstract of the United States: 1979.

Table 277.-- NUMBER OF BANKS AND OTHER FINANCIAL INSTITUTIONS, BY ISLANDS: DECEMBER 31, 1979

Island	Banks		Savings and loans		Industrial loan licensees	
	Firms	Branch offices	Associations	Branch offices	Licensees	Branch offices
State total 1/	9	172	9	136	77	170
Hawaii	-	23	-	17	3	23
Maui	1	17	-	16	1	15
Lanai	-	1	-	2	-	-
Molokai	-	2	-	1	1	-
Oahu	8	104	9	92	71	122
Kauai	-	12	-	8	1	10
Niihau	-	-	-	-	-	-
Pacific Islands ...	-	13	-	-	-	-

1/ Includes out-of-state branches.

Source: Hawaii State Department of Regulatory Agencies, Bank Examination Division, data supplied August 7, 1980.

Table 278.-- BANKS: 1970 TO 1980

Year	Number, June 30		Total assets, June 30 ($1,000)	Debits to demand deposits, cal. year ($1,000)	Bank clearings, cal. year ($1,000)
	Banks	Branch offices and facilities			
1970	7	143	1,762,811	23,305,519	13,286,842
1971	7	149	2,062,194	24,316,129	15,091,524
1972	7	155	2,252,841	27,006,791	16,839,868
1973	8	162	2,625,855	31,803,985	19,253,017
1974	8	164	2,875,085	38,495,103	21,219,856
1975	8	165	2,964,953	42,198,265	23,663,047
1976	8	168	3,207,161	44,908,514	27,173,406
1977	8	166	3,387,094	50,492,878	30,437,727
1978	8	171	4,003,656	58,264,541	34,104,261
1979	9	170	4,431,161	72,492,632	39,746,116
1980	9	173	5,099,835	(NA)	(NA)

Year	Deposits, June 30 ($1,000)			
	Total	Demand	Time	Government and other
1970	1,558,671	558,924	631,538	368,209
1971	1,804,545	624,130	751,692	428,723
1972	2,000,685	683,419	843,828	473,438
1973	2,367,682	781,470	982,689	603,523
1974	2,573,664	819,177	1,074,603	679,883
1975	2,615,796	875,441	1,170,368	569,986
1976	2,883,238	880,902	1,326,326	676,010
1977	3,008,895	932,909	1,497,021	578,965
1978	3,601,380	1,099,932	1,664,932	836,517
1979	3,930,365	1,171,686	1,863,368	895,311
1980	4,524,532	1,259,679	2,098,238	1,166,615

NA Not available.

Source: Hawaii State Department of Regulatory Agencies, Bank Examination Division, semi-annual consolidated statements and records.

Table 279.-- SAVINGS AND LOAN ASSOCIATIONS: 1970 TO 1980

(As of June 30)

Year	Number		Assets ($1,000)	Deposits 1/ ($1,000)
	Associations	Branches 2/		
1970	13	51	730,772	584,017
1971	13	55	869,323	716,674
1972	12	62	1,085,455	878,335
1973	12	72	1,325,331	1,032,679
1974	11	82	1,474,175	1,146,587
1975	11	90	1,650,050	1,326,024
1976	11	107	1,923,501	1,608,434
1977	11	112	2,345,999	1,952,042
1978	10	115	2,876,344	2,211,889
1979	9	128	3,447,136	2,664,704
1980	8	139	3,896,380	2,901,379

1/ Withdrawable shares, withdrawable deposits and investment certificates.

2/ Branches, facilities, and agencies.

Source: Hawaii State Department of Regulatory Agencies, Bank Examination Division, semi-annual consolidated statements and records.

Table 280.-- TRUST COMPANIES AND LOAN COMPANIES: 1970 TO 1980

(As of June 30)

Year	Trust companies		Industrial loan licensees		Small loan licensees	
	Number	Assets ($1,000)	Number	Assets ($1,000)	Number	Assets ($1,000)
1970	3	40,606	213	311,978	46	1,016
1971	3	45,049	220	371,556	47	871
1972	4	46,941	220	448,935	40	365
1973	3	45,809	221	549,495	24	131
1974	3	41,181	225	680,286	24	653
1975	3	46,988	235	718,010	6	67
1976	3	53,365	239	797,883	6	32
1977	3	57,911	242	742,330	-	-
1978	3	59,862	238	776,687	-	-
1979	3	53,779	243	868,539	-	-
1980	4	70,156	249	982,858	-	-

Source: Hawaii State Department of Regulatory Agencies, Bank Examination Division, semi-annual consolidated statements and records.

Table 281.-- AVERAGE RATE OF RETURN ON BANK LOANS AND AVERAGE INTEREST RATE ON TIME DEPOSITS: 1968 TO 1977

(Figures are calculated using data from two reports filed annually by all FDIC-insured banks in the state--"Report of Condition" and "Report of Income.")

Year	Percent return on bank loans 1/	Percent interest on time deposits 2/
1968	8.41	4.58
1969	8.60	4.94
1970	9.19	5.67
1971	8.75	4.96
1972	8.60	4.71
1973	9.16	5.84
1974	10.30	7.41
1975	9.67	6.02
1976	9.82	5.63
1977	10.12	5.15

1/ Based on total amount of interest income from all loans and average amount of loans outstanding.

2/ Based on total amount of interest paid on time deposits and average amount of time deposits held. Data for 1976 and 1977 limited to data for time deposits of $100,000 or more.

Source: Maxwell J. Fry, "Economic Growth and Capital Shortage in Alaska, Hawaii, and Puerto Rico," Growth and Change, April 1979, pp. 17-21, especially tables 1 and 2; Federal Deposit Insurance Corporation, Bank Operating Statistics (annual).

Table 282.-- PRIME RATE AND FEDERAL FUNDS RATE CHARGED BY BANKS: 1969 TO 1979

(In percent)

Year	Annual averages	
	Prime rate	Federal funds rate
1969	7.95	8.21
1970	7.91	7.17
1971	5.70	4.66
1972	5.25	4.44
1973	8.02	8.74
1974	10.80	10.51
1975	7.86	5.82
1976	6.84	5.05
1977	6.82	5.54
1978	9.06	7.93
1979	12.67	11.19

Source: U.S. Department of Commerce, Bureau of Economic Analysis, Business Conditions Digest, for January 1979 and January 1980.

Table 283.-- CREDIT UNIONS: 1977 TO 1979

(As of December 31.)

Year	Number of credit unions	Assets (dollars)	Shares (dollars)
1977	158	599,929,674	535,493,101
1978	158	704,130,075	626,367,918
1979	159	755,417,266	667,505,910

Source: Hawaii Credit Union League, records.

Table 284.-- MARKET VALUE OF STOCKS AND BONDS TRADED ON THE HONOLULU STOCK EXCHANGE: 1970 TO 1978

[The Honolulu Stock Exchange, established in August 1898, held its final session December 30, 1977.]

Year	Value ($1,000)
1970	8,590
1971	5,533
1972	3,986
1973	1,896
1974	1,175
1975	523
1976	383
1977	298
1978	-

Source: Honolulu Stock Exchange, records.

Table 285.-- HAWAII RESIDENTS HOLDING SHARES IN U.S. PUBLIC CORPORATIONS OR INVESTMENT COMPANIES: 1965 TO 1975

Year	Shareowners
1965	39,000
1970	74,000
1975	58,000

Source: New York Stock Exchange, Inc., Shareownership U.S.A., 1965 Census of Shareowners (p. 22), Shareownership - 1970, Census of Shareowners (p. 20), and Shareownership 1975 (p. 19).

Table 286.-- STOCKHOLDINGS OF HAWAII RESIDENTS IN MAJOR HAWAII COMPANIES: 1978

[Excludes stock owned by residents in their broker's name.]

Company 1/	Hawaii shareholders		Shares held in Hawaii		Market value of shares held in Hawaii (millions of dollars)	Annual dividends to Hawaii shareholders (millions of dollars)
	Number	Percent of company total	Number (millions)	Percent of company total		
Castle & Cooke	4,350	16	4.4	21	81.3	3.5
Alexander & Baldwin	4,880	51	4.4	47	73.2	5.2
Hawaii Bancorp	2,185	55	5.2	80	67.7	4.2
Hawaiian Electric	10,685	62	2.5	42	65.1	5.1
General Tel. & Elec. ...	12,165	2.8	2.2	1.6	63.9	5.0
First Hawaiian	1,500	65	2.3	75	56.3	4.1
Dillingham	5,465	38	5.2	41	43.8	2.7
Amfac	4,395	36	1.9	15	34.5	1.9
Pacific Resources	2,590	68	3.6	70	28.8	1.3
Maui Land & Pine	295	18	0.97	61	23.7	0.39
C. Brewer	1,830	48	0.79	17	11.8	-
Aloha Airlines	3,315	19	1.0	47	5.5	-
Hawaiian Airlines	925	42	0.97	61	4.8	0.15

1/ Companies listed on a Mainland stock exchange or in the national over-the-counter market. Inter-island resorts not included because of lack of data.

Source: Kit Smith, "Hawaii's Big 13 and their owners," Honolulu Advertiser, June 29, 1978, p. C-5.

Table 287.-- INSURANCE BUSINESS TRANSACTED IN HAWAII: 1968 TO 1978

Calendar year	All insurance			Life insurance, excluding annuities				
	Number of companies authorized, Dec. 31	Premiums ($1,000)	Losses, claims and benefits paid ($1,000)	Number of companies 1/	Insurance written, revived increased, or transferred ($1,000)	Insurance in force, Dec. 31 ($1,000)	Premiums received ($1,000)	Claims and benefits paid ($1,000)
1968	434	179,236	86,102	200	1,171,454	5,874,280	85,713	36,609
1969	450	207,184	98,867	213	1,289,564	6,632,539	91,402	39,703
1970	469	246,986	114,011	223	1,376,907	7,441,077	98,360	40,267
1971	485	276,707	119,880	233	1,565,272	8,127,837	106,524	45,301
1972	502	303,954	124,502	239	1,484,039	8,788,361	115,491	44,661
1973	517	316,897	132,102	262	1,935,643	9,433,897	120,229	47,980
1974 2/ .	534	331,146	155,272	270	2,614,259	11,383,173	130,102	54,009
1975	537	380,480	170,561	279	2,046,479	12,650,488	138,597	53,291
1976 2/ .	542	421,545	192,547	283	2,269,602	13,560,838	148,977	65,312
1977 2/ .	546	488,437	225,675	285	2,432,658	14,680,847	161,725	63,040
1978	556	555,392	240,320	291	2,814,838	15,803,154	172,999	64,391

1/ Transacting life insurance business during the year, 1968-1972; authorized, 1973 and later years. Includes fraternal benefit societies.

2/ Revised from 1979 edition, table 233.

Source: Report of the Insurance Commissioner of Hawaii (annual), and records.

Table 288.-- INSURANCE PREMIUMS AND LOSSES PAID, BY CLASS OF INSURANCE: 1978

(Dollars)

Class of insurance	Premiums	Losses, claims, and benefits paid
All classes	555,392,015	240,319,625
Life 1/	172,250,113	64,340,518
Fraternal	748,849	50,634
Fire, marine, casualty, and miscell.:		
Accident and health	51,741,470	27,589,256
Fire	18,247,844	7,317,155
Allied lines	7,654,846	1,011,592
Homeowners multiple peril	20,353,809	9,501,996
Private passenger auto no-fault	22,535,064	11,168,059
Other private passenger auto liability	54,419,007	30,197,157
Commercial auto no-fault	4,009,987	2,329,255
Other commercial auto liability	15,006,592	8,052,576
Private passenger auto physical damage	38,924,789	24,686,782
Commercial auto physical damage	5,515,527	3,294,809
Workers' compensation	65,170,519	29,909,963
Other liability	33,559,307	7,280,754
Medical malpractice	6,946,894	1,348,389
Glass	518,724	168,544
Burglary and theft	1,377,720	414,028
Boiler and machinery	773,954	230,998
Fidelity and surety	7,884,945	1,977,531
Ocean marine	4,731,847	6,029,632
Inland marine	6,476,547	2,382,691
Earthquake	123,640	-
All other	7,440,604	271,704
Surplus lines	8,979,417	765,602

1/ Excludes annuities. Also excludes insurance on nonresidents.
Source: Report of the Insurance Commissioner of Hawaii: 1979, p. 5.

Table 289.-- MISCELLANEOUS INSURANCE STATISTICS: 1978

(In millions of dollars. For insurance companies authorized in Hawaii.)

Subject	Amount
Life insurance:	
Written, revived, increased or transferred	2,814.8
In force, December 31	15,803.2
Premiums received	173.0
Losses, claims and benefits paid	64.4
Insurance other than life:	
Direct premiums written	382.4
Direct premiums earned	355.2
Direct losses paid	175.9
Direct losses incurred	211.0

Subject	Amount			
	All companies	Domestic	Foreign	Alien (U.S. business only)
Financial condition, Dec. 31:				
Assets	449,181.6	360.6	442,961.5	5,859.6
Liabilities exc. capital and surplus	402,969.9	293.4	397,584.2	5,092.3
Policyholder's surplus inc. capital	46,211.7	67.1	45,377.2	767.3
Capital	2,104.8	12.0	2,079.9	12.9
Net gain or loss	4,729.0	-0.7	4,718.6	11.1
Hawaii business:				
Direct premiums written	590.3	160.0	411.6	18.7
Claims and benefits paid	282.5	75.8	200.0	6.7
Investments in Hawaii, Dec. 31	2,076.3	99.7	1,941.4	35.2
Mortgage loans (principal indebtedness)	1,075.6	44.9	1,011.6	19.0
Collateral loans (amount lent)	0.4	0.4	-	-
State and county bonds 1/	211.4	12.1	199.0	0.3
Utilities stocks and bonds 1/	181.9	11.7	156.6	13.7
Industrial and misc. stocks and bonds 1/	540.7	23.7	515.1	2.0
Real estate 1/	66.3	6.9	59.2	0.1
Balances in Hawaii banks	11.4	8.4	3.0	-

1/ Market value (less encumbrances for real estate).
Source: Report of the Insurance Commissioner of Hawaii 1979.

Table 290.-- HEALTH INSURANCE: 1977

Subject	Number
Protected population (thousands): 1/	
Hospital expense	723
Surgical expense	687
Physician's expense	660
Major medical expense	78
Health insurance benefit payments (millions of dollars), total	197
Insurance companies	42
Other hospital-medical plans	155
Health insurance premiums (millions of dollars), total	212
Insurance companies	42
Other hospital-medical plans	170
Community hospital costs:	
Average length of hospital stay (days)	7.10
Average cost to hospital (dollars)	
Per patient day	213.10
Per patient stay	1,513.20

1/ Number of persons under age 65 protected by hospital, surgical, physician's expense, and major medical expense coverage, as of December 31, 1977 (unduplicated).

Source: Health Insurance Institute, Source Book of Health Insurance Data 1978-1979, pp. 17, 25, 30, and 61.

Table 291.-- PREPAID HEALTH PLANS: 1970 TO 1979

Year	Hawaii Medical Service Association		Kaiser Foundation Health Plan			Commercial carrier premiums 1/ ($1,000)
	Persons covered, end of year 2/	Membership dues 3/ ($1,000)	Persons covered 2/		Membership dues ($1,000)	
			Annual average	End of year		
1970 ..	393,546	35,389	82,721	87,008	9,372	23,000
1971 ..	404,293	42,443	89,934	94,009	11,503	26,556
1972 ..	417,305	48,759	95,226	95,877	13,227	29,097
1973 ..	432,905	55,209	96,057	96,242	14,779	31,200
1974 ..	451,583	64,138	97,202	98,184	16,309	33,176
1975 ..	474,265	79,827	100,766	101,827	18,592	35,564
1976 ..	484,295	97,882	103,364	104,785	21,879	42,601
1977 ..	507,709	113,335	106,217	107,592	25,614	46,124
1978 ..	515,439	127,744	110,191	113,388	28,883	51,741
1979 ..	528,362	146,775	115,225	115,963	34,514	(NA)

NA Not available.

1/ For accident and health insurance.

2/ Subscribers and dependents, whether on a group or individual basis.

3/ Excludes investment income, membership fees, etc.

Source: Hawaii Medical Service Association, records; Kaiser Foundation Health Plan, Inc., records; Report of the Insurance Commissioner (annual)

Table 292.-- FIRE CHARACTERISTICS, FOR THE CITY AND COUNTY OF HONOLULU: 1970 TO 1979

(Years ended June 30)

Year	Fire alarms				Fire deaths	Fire losses (dollars)
	Total alarms	Fires	False alarms	Needless alarms 1/		
1970 ..	6,279	4,716	1,563	-	4	4,531,168
1971 ..	5,679	3,868	1,811	-	8	5,032,081
1972 ..	6,379	3,952	1,838	589	7	3,527,052
1973 ..	7,415	4,930	1,807	678	8	12,962,159
1974 ..	6,132	3,685	1,812	635	11	6,391,520
1975 ..	7,064	4,316	2,057	691	5	7,303,404
1976 ..	8,157	5,278	2,166	713	7	7,369,820
1977 ..	8,225	5,451	2,061	713	5	7,008,431
1978 ..	7,876	5,258	1,858	760	5	9,975,951
1979 ..	8,497	5,962	1,861	674	7	8,027,335

1/ Non-fire incidents, such as smoke scares or overheated food.

Source: Annual Report of the Fire Department, City and County of Honolulu, 1977-1978, p. 264, and records.

Table 293.-- REGISTERED CORPORATIONS AND PARTNERSHIPS: 1978 TO 1980

(Excludes eleemosynary corporations.)

Subject	1978	1979	1980
Domestic (Hawaii) corporations:			
Formed 1/	2,718	3,233	3,450
Dissolved or merged 2/	1,879	1,168	1,621
On record, June 30	19,023	21,088	22,917
Foreign (non-Hawaii) corporations:			
Qualified 1/	340	480	476
Withdrawn, merged, or cancelled 2/	54	385	217
On record, June 30	3,054	3,149	3,408
Partnerships:			
Registered 1/	1,150	1,939	1,775
Dissolved or cancelled 2/	500	1,334	1,044
On record, June 30	6,360	6,965	7,696

1/ Annual totals for fiscal years ended June 30.

2/ Annual totals for fiscal years ended June 30. Annual fluctuations may partly reflect the sporadic purging of defunct firms from the registration files.

Source: Hawaii State Department of Regulatory Agencies, Business Registration Division, records.

Table 294.-- CHARACTERISTICS OF BUSINESS UNITS OR ESTABLISHMENTS: 1968 TO 1977

Definition and year 1/	Number of employees 2/	Payroll ($1,000)		Number of establishments, by employment-size class 1/		
		First quarter	Annual	Total	1 to 4 3/	5 to 9 4/
OLD DEFINITION						
1968	180,127	242,509	(NA)	11,863	5,296	2,484
1969	196,343	283,081	(NA)	12,046	5,268	2,449
1970	208,882	330,607	(NA)	12,146	5,212	2,487
1971	214,916	351,722	(NA)	12,526	5,351	2,570
1972	222,207	383,974	(NA)	12,959	5,332	2,778
1973	239,209	433,925	(NA)	13,640	5,557	2,950
NEW DEFINITION						
1973	236,606	444,491	1,885,174	16,298	(NA)	(NA)
1974 6/	248,859	478,032	2,081,578	16,957	9,045	3,249
1975	252,254	543,590	2,274,957	17,095	9,041	3,317
1976	252,252	577,390	2,412,122	17,271	9,135	3,359
1977	264,757	633,103	2,656,779	18,660	9,942	3,741

Definition and year 1/	Number of establishments by employment-size class 1/ -- Con.					
	10 to 19 5/	20 to 49	50 to 99	100 to 249	250 to 499	500 or more
OLD DEFINITION						
1968	2,353	1,095	365	187	56	27
1969	2,462	1,190	369	220	56	32
1970	2,464	1,243	403	240	64	33
1971	2,585	1,258	424	236	70	32
1972	2,725	1,344	434	245	69	32
1973	2,852	1,412	520	243	76	30
NEW DEFINITION						
1973	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1974	2,230	1,558	553	234	53	39
1975	2,305	1,546	565	226	56	39
1976	2,332	1,544	566	248	49	38
1977	2,397	1,642	589	257	52	40

Footnotes and source on next page.

Table 294.-- CHARACTERISTICS OF BUSINESS UNITS OR ESTABLISHMENTS: 1968 TO 1977 -- Con.

NA Not available.

1/ Data refer to business units (1973 and earlier years) or establishments (1973 and later) with taxable payrolls during the first quarter of the year. An "establishment" is a single physical location where business is conducted or where service or industrial operations are performed. The reporting units prior to 1974 were defined similarly for manufacturing industries but differently for nonmanufacturing industries; for the latter category, a group of similar establishments or an employer located in the same county was counted as a single reporting unit. Coverage in all years excludes government and self-employed workers.

2/ For week including March 12.

3/ 1 to 3 prior to 1974.

4/ 4 to 7 prior to 1974.

5/ 8 to 19 prior to 1974.

6/ Totals for number of employees, payroll, and number of establishments are revised figures, but data on number of establishments are unrevised and add to 16,961 rather than 16,957.

Source: U.S. Bureau of the Census, County Business Patterns (annual).

Table 295.-- CHARACTERISTICS OF BUSINESS UNITS, BY COUNTIES: 1975 TO 1977

[Excludes government employees and self-employed persons.]

Year and county	Number of establishments	Number of employees, mid-March	Payroll ($1,000)	
			First quarter	Annual
1975				
State total	17,095	252,254	543,590	2,274,957
Hawaii	1,638	18,064	35,447	147,845
Honolulu	13,322	209,981	463,986	1,937,446
Kauai	682	7,741	14,477	61,375
Maui	1,322	15,895	28,760	124,269
Statewide	131	573	920	4,023
1976				
State total	17,271	252,252	577,390	2,412,122
Hawaii	1,677	19,072	41,090	171,253
Honolulu	13,478	207,153	484,407	2,018,954
Kauai	693	8,479	17,467	73,751
Maui	1,363	17,461	34,329	147,377
Statewide	60	87	98	786
1977				
State total	18,660	264,757	633,103	2,656,779
Hawaii	1,887	20,810	46,147	194,298
Honolulu	14,282	215,699	527,903	2,201,527
Kauai	792	9,475	20,896	89,754
Maui	1,619	18,762	38,132	170,319
Statewide	80	11	26	882

Source: U.S. Bureau of the Census, County Business Patterns, 1976, Hawaii, CBP-76-13 (July 1978), p. 15, and County Business Patterns, 1977, CBP-77-13 (July 1979), p. 15.

Table 296.-- CHARACTERISTICS OF BUSINESS UNITS, BY MAJOR INDUSTRY GROUP: 1977

[Excludes government and self-employed workers.]

Major industry group	Number of establishments	Number of employees, mid-March	Payroll ($1,000)	
			First quarter	Annual
Total	18,660	264,757	633,103	2,656,779
Agricultural services, forestry, fisheries	186	1,542	3,275	13,448
Mining	9	247	886	3,949
Contract construction	1,548	20,016	77,669	308,249
Manufacturing 1/	837	23,711	65,779	273,291
Food and kindred products	204	9,362	23,262	108,040
Apparel and other textile products	136	3,541	6,005	24,702
Transportation and other public utilities	806	26,278	92,924	405,423
Wholesale trade	1,522	15,388	44,996	193,387
Retail trade 1/	5,230	75,159	119,500	507,116
Eating and drinking places	1,411	27,865	33,554	140,862
Finance, insurance, and real estate	2,510	23,275	60,074	244,793
Services 1/	5,533	78,581	167,143	698,221
Hotels and other lodging places	210	18,785	35,101	141,129
Health services	1,146	13,160	38,109	161,498
Nonclassifiable establishments	479	560	856	8,901

1/ Includes sugroups not shown separately.

Source: U.S. Bureau of the Census, County Business Patterns, 1977, Hawaii, CBP-77-13 (July 1979), pages 1-2.

Table 297.-- CHARACTERISTICS OF BUSINESS UNITS, BY EMPLOYMENT-SIZE CLASS: 1977

(Excludes government employees and self-employed persons.)

Employment-size class	Number of establishments	Number of employees	Annual payroll ($1,000)
Total	18,660	264,757	2,656,779
1 to 4	9,942	19,507	198,383
5 to 9	3,741	26,639	227,712
10 to 19	2,397	34,320	303,576
20 to 49	1,642	51,581	473,440
50 to 99	589	40,853	399,043
100 to 249	257	37,656	406,119
250 to 499	52	18,556	206,514
500 to 999	27	17,331	180,468
1,000 or more	13	18,314	261,525

Source: U.S. Bureau of the Census, County Business Patterns, 1977, Hawaii, CBP-77-13 (July 1979), pages 3 and 10.

Table 298.-- CORPORATIONS, TAXABLE AND NONTAXABLE: 1966 TO 1976

Subject	Fiscal year ended in --		
	1966	1975	1976
Number of corporations	6,109	10,966	11,611
Taxable	3,344	5,441	5,445
Nontaxable	2,765	5,525	6,166
Business receipts 1/	(NA)	9,095	9,619
Taxable corporations 1/	(NA)	6,439	6,578
Nontaxable corporations 1/	(NA)	2,657	3,041
Taxable income, excluding net losses 2/	181.0	498.1	396.8

1/ In millions of dollars.

2/ In millions of dollars. Includes taxable income reported by Small Business Corporations, taxable to individual stockholders only.

Source: Hawaii State Department of Taxation, Hawaii Income Patterns--Corporations (annual reports).

Table 299.-- PROPRIETORSHIPS: 1975 AND 1977

Subject	1975	1977
Number of businesses, total	40,427	42,343
With net profit	28,096	27,859
With net loss	12,331	14,484
Business receipts, total ($ million)	660.4	840.2
Businesses with net profit ($ million)	593.7	706.5
Businesses with net loss ($ million)	66.6	133.7
Net profit reported ($ million)	180.3	251.3
Net loss reported ($ million)	27.3	38.7

Source: Hawaii State Department of Taxation, Hawaii Income Patterns--Proprietorships (biennial report).

Table 300.-- INDUSTRIAL AND COMMERCIAL FAILURES: 1977 AND 1978

Year	Number	Current liabilities (million dollars)
1977	9	1.8
1978	31	9.0

Source: Data from Dun & Bradstreet, Inc., cited in Statistical Abstract of the United States: 1979, p. 575.

Table 301.-- TOTAL REVENUES AND NET INCOME OF SELECTED MAJOR CORPORATIONS IN HAWAII: 1978 AND 1979

(In millions of dollars.)

Corporation	Total revenues		Net income	
	1978	1979	1978	1979
Amfac, Inc.	1,500.7	1,689.5	42.4	56.4
Castle & Cooke, Inc.	1,329.6	1,593.4	47.6	31.0
Dillingham Corporation	919.7	1,154.9	15.4	28.4
Pacific Resources, Inc.	471.7	554.1	9.3	12.5
Alexander & Baldwin, Inc.	311.5	356.2	32.8	35.3
Hawaiian Electric Co., Inc.	296.3	332.8	23.5	25.3
C. Brewer & Co., Ltd.	242.2	274.0	(NA)	(NA)
Hawaiian Telephone Company	232.7	259.9	38.1	39.3
Bancorp Hawaii, Inc. 1/	137.7	185.9	16.3	20.6
First Hawaiian, Inc.	121.3	152.7	12.8	14.9
Hawaiian Airlines, Inc.	90.5	109.1	-0.7	0.8
Maui Land & Pineapple Co., Inc.	62.7	103.8	2.8	4.0
Amelco Corporation	60.9	72.6	0.1	0.7
Aloha Airlines, Inc.	60.7	69.7	3.3	1.2
Interisland Resorts, Ltd.	34.9	39.5	3.9	0.3
Central Pacific Bank	26.5	34.0	2.1	2.1
American Security Bank	25.9	33.5	2.5	3.0
Crown Corporation	26.4	30.8	2.1	2.6
City Bank	15.8	21.8	1.3	1.8
Liberty Bank	12.3	17.2	0.6	1.3
Hawaii National Bank	11.1	13.5	0.5	0.6
Bishop Investment Corporation	9.0	10.2	2.6	2.1
Hawaiian Trust Co., Ltd.	6.3	7.1	0.8	1.0
Bank of Honolulu	2.8	3.3	0.2	0.3

NA Not available.

1/ Corporation's name in 1978 was Hawaii Bancorporation, Inc.

Source: Compiled by the Hawaii State Department of Planning and Economic Development from corporate annual reports; C. Brewer & Company, Ltd., Accounting Department, records.

Section 16

COMMUNICATIONS

This section presents statistics on the various communications media: postal service, telephone, telegraph, radio, television, newspaper, and books.

Hawaii is served by all major communications media. In 1979 it had 76 post offices handling 276 million pieces of mail and accounting for postal receipts in excess of $55 million. There were 685,000 telephones in service (double the number a dozen years earlier), 296,000 telephone homes, 1.8 billion local calls originated, 10 million completed interisland calls, and 28 million incoming and outgoing transpacific calls. Telegraph messages to and from Hawaii in 1978 totaled 272,000. The 35 commercial and educational radio stations in the Islands early in 1980 included 25 on the regular broadcast band and 10 FM stations. The State also had 12 television stations (10 commercial and 2 educational), including satellites but excluding translators. Ten cable TV companies served 115,000 subscribers. More than 96 percent of all households had television sets, and half of the adults surveyed watched three or more hours daily. Island publishers printed six daily newspapers, numerous magazines and other periodicals, and a wide diversity of books. Newspaper circulation reported by the three English-language dailies averaged 216,500 in 1979, compared with 203,500 a decade earlier.

The major sources for statistics on commnications are the reports and records of the U.S. Postal Service, Federal Communications Commission, CATV Division of the Hawaii State Department of Regulatory Agencies, Hawaiian Telephone Company, Audit Bureau of Circulations, and Hawaii Media Guide. Earlier figures appear in Historical Statistics of Hawaii, Section 18. Data on communications for other States and for the nation as a whole are carried in Statistical Abstract of the United States: 1979, Section 19.

Table 302.-- POSTAL SERVICE: 1978 AND 1979

[For fiscal years ended September 30]

Year	Number of post offices at end of period 1/	Gross postal receipts ($1,000)	Pieces of mail handled 2/ (millions)
1978	76	49,198	267
1979	76	55,267	276

1/ Includes all 1st-, 2nd-, 3rd-, and 4th-class post offices; excludes branches and stations.

2/ Data limited to mail originating in Hawaii; mail originating elsewhere is excluded.

Source: U.S. Postal Service, Pacific District Office, records.

Table 303.-- TELEPHONE CALLS: 1973 TO 1979

[In thousands]

Year	Local 1/		Interisland		Transpacific (paid)	
	Originating	Completed	Paid 2/	Completed	Hawaii originating	Incoming and out-going 3/
1973	1,379,709	931,304	3,754	3,805	3,795	6,814
1974	1,438,381	949,332	4,494	4,564	4,775	8,620
1975	1,395,876	918,486	5,156	5,352	5,908	10,703
1976	1,517,337	1,012,064	5,851	6,140	7,448	13,621
1977	1,566,869	1,052,936	6,838	7,028	9,485	17,103
1978	1,719,200	1,139,829	8,087	8,317	12,232	22,540
1979	1,830,954	1,186,458	9,635	10,040	15,160	28,113

1/ Revised from 1978 edition, table 262. For a discussion of these revisions and annual comparability of data before 1973, see 1979 edition, table 248.

2/ Excludes uncollectables.

3/ Includes calls paid in Hawaii and elsewhere.

Source: Hawaiian Telephone Company, records.

Table 304.-- TELEPHONES IN SERVICE AND RESIDENCE MAIN STATIONS: 1969 TO 1979

[Data before 1971 exclude Defense Administrative Telephone Service (DATS), taken over by the Hawaiian Telephone Company in that year.]

Year	Telephones in service, December 31,			Residence main stations, Dec. 31
	State total	Oahu	Other islands	
1969	381,982	314,915	67,067	188,864
1970	414,165	339,952	74,213	199,333
1971 1/	445,995	365,733	80,262	212,983
1972	498,593	412,443	86,150	221,277
1973	523,699	430,612	93,087	231,146
1974	544,718	444,359	100,359	239,923
1975	567,685	460,602	107,083	250,319
1976	596,952	480,937	116,015	262,982
1977	627,848	501,914	125,934	273,860
1978	659,141	523,472	135,669	285,948
1979	684,812	539,582	145,230	296,433

1/ Defense Administrative Telephone System (DATS) included beginning in 1971. DATS telephones in service numbered 4,423 (all on Oahu) as of December 31, 1971.

Source: Hawaiian Telephone Company, records.

Table 305.-- TELEPHONE SERVICE, BY ISLANDS: 1979

Islands	Telephones in service, Dec. 31	Main stations, Dec. 31		Inter-island calls 1/	Trans-pacific calls 2/
		Residence	Business		
State total	684,812	296,433	76,533	10,040,098	15,160,327
Oahu	539,582	233,093	59,366	4,629,652	12,150,247
DATS 3/	25,446	-	11,796	...	...
Other Oahu ...	514,136	233,093	47,570	...	...
Other Islands ..	145,230	63,340	17,167	5,410,446	3,010,080
Hawaii	62,322	27,662	7,408	2,234,362	1,090,390
Maui	51,197	21,821	6,056	2,123,184	1,415,266
Lanai	864	611	104	...	...
Molokai	3,436	1,598	396	...	...
Kauai	27,411	11,648	3,203	1,052,900	514,424

1/ Number completed, by island of origination. Oahu total includes Lanai and Molokai.

2/ Paid calls orignating in Hawaii, by island of origination, Oahu total includes Lanai and Molokai.

3/ Defense Area Telephone Service.

Source: Hawaiian Telephone Company, records.

Table 306.-- TELEGRAPH MESSAGES: 1970 TO 1979

Year	Total messages	From Hawaii to Mainland			From Mainland to Hawaii		
		Total from Hawaii	Originated in Hawaii	Originated elsewhere	Total to Hawaii	Originated on Mainland	Originated elsewhere
1970	567,550	266,811	198,830	67,981	300,739	236,106	64,633
1971	419,188	201,600	135,581	66,019	217,588	154,506	63,082
1972	392,596	189,214	122,792	66,422	203,382	141,682	61,700
1973	385,823	198,693	136,747	61,946	187,130	116,850	70,280
1974	382,281	185,204	100,321	84,883	197,077	125,319	71,758
1975	346,851	166,700	81,986	84,714	180,151	110,390	69,761
1976	307,036	156,235	70,692	85,543	150,801	80,638	70,163
1977	277,748	142,903	61,512	81,391	134,845	70,826	64,019
1978	271,747	137,687	54,505	83,182	134,060	69,055	65,005
1979	262,888	134,265	50,522	83,743	128,623	65,598	63,025

Source: Federal Communications Commission, Common Carrier Bureau, records.

Table 307.-- PAID CIRCULATION OF DAILY AND SUNDAY ENGLISH-LANGUAGE NEWSPAPERS: 1978 AND 1979

[Averages for six-month periods ended September 30.]

Year	Honolulu Advertiser 1/	Honolulu Star-Bulletin 1/	Sunday Star-Bulletin and Advertiser	Hawaii Tribune-Herald 2/	
				Daily	Sunday
1978	80,659	117,989	198,661	16,709	18,329
1979	81,317	117,729	199,046	17,451	19,123

1/ Published daily, Monday through Saturday.
2/ Published daily, including Sunday.
Source: Audit Bureau of Circulations data supplied by the Hawaii Newspaper Agency, Inc., and the Hawaii Tribune-Herald.

Table 308.-- PERIODICALS PUBLISHED IN HAWAII: 1980

Frequency	Newspapers 1/		Magazines and other periodicals
	English	Foreign language	
Daily or 6 times weekly	3	3	-
2 or 3 times weekly	4	-	1
Weekly	1	1	19
Semi-monthly or biweekly	1	-	17
Monthly	-	-	21
2 to 10 times annually	-	-	5

1/ The daily newspapers are: Honolulu Advertiser, Honolulu Star-Bulletin, and Hawaii Tribune-Herald (Hilo), all English-language; Hawaii Hochi and Hawaii Times, both bilingual (Japanese and English); and United Chinese Press, Chinese. All but the Hawaii Tribune-Herald are published in Honolulu.

Source: Aloha United Way, Hawaii Media Guide 1980.

Table 309.-- BOOKS AND SCHOLARLY JOURNALS PUBLISHED BY THE UNIVERSITY PRESS OF HAWAII: 1978 AND 1979

Year	Published titles 1/		New books and journals published 2/		Volumes sold 2/	Sales revenues 2/ (dollars)
	Cumulative total	In print	Books	Scholarly journals		
1978	516	418	46	4	163,686	819,527
1979	550	441	34	5	182,598	790,214

1/ As of June 30.

2/ Year ended June 30.

Source: The University Press of Hawaii, Annual Report (annual).

Table 310.-- COMMERCIAL AND EDUCATIONAL RADIO AND TELEVISION BROADCASTING STATIONS IN OPERATION: JANUARY 1, 1980

Kind of station	Commercial stations	Educational stations
Radio, AM	25	-
Radio, FM	10	1
Television, except satellites ..	4	2
Television satellites	6	-

Source: Federal Communications Commission, Broadcast Bureau, Policy and Rules Division, Policy Analysis Branch, information supplied March 13, 1980.

Table 311.-- BROADCAST REVENUES AND EXPENDITURES OF COMMERCIAL RADIO AND TELEVISION STATIONS: 1977 AND 1978

Category and year	Number of stations		Broadcast revenues (dollars)	Broadcast expenses (dollars)
	In operation	Reporting		
Radio: 1/				
1977	27	27	9,823,082	11,273,172
1978	31	26	11,276,796	12,672,688
Television: 2/				
1977	10	6	18,855,099	17,979,561
1978	10	6	23,095,726	19,964,945

1/ AM and FM stations counted as one station.

2/ Includes satellites.

Source: Federal Communications Commission, Broadcast Bureau, Policy and Rules Division, Policy Analysis Branch, records.

Table 312.-- CABLE TELEVISION COMPANIES, SUBSCRIBERS, AND REVENUES, BY COUNTIES: 1978 AND 1979

County	Number of companies Dec. 31 1/		Subscribers, Dec. 31		Gross revenue ($1,000)	
	1978	1979	1978	1979	1978	1979
State total	10	10	97,218	114,790	10,686	13,260
Hawaii	3	3	11,436	12,757	1,330	1,438
Maui	2	2	5,167	7,271	551	721
Honolulu	5	5	78,562	92,526	8,564	10,773
Kauai	1	1	2,053	2,236	281	328

1/ State total is unduplicated figure; one company provided service to both Hawaii and Maui Counties.

Source: Hawaii State Department of Regulatory Agencies, CATV Division, records.

Table 313.-- TELEVISION HOUSEHOLDS, BY GEOGRAPHIC AREAS: 1979-1980

Geographic area	Total households	Television households	
		Number	Percent
State total ...	273,800	265,250	96.9
Oahu	218,800	213,230	97.5
Other islands	55,000	52,020	94.6

Source follows next table.

Table 314.-- AVERAGE NUMBER OF TELEVISION VIEWERS BY TIME OF DAY: NOVEMBER 1979 AND MAY 1980

(Data refer to the total number of persons 2 years old and over in television households.)

Time of day	Days of the week	Television viewers: November 1979	Television viewers: May 1980
6 A.M. to 2 A.M. ..	Sun.-Sat.	143,350	93,200
6 A.M. to noon	Mon.-Fri.	61,500	47,080
Noon to 6 P.M.	Mon.-Fri.	111,920	98,500
6 P.M. to 9 P.M. ..	Sun.-Sat.	343,810	324,240
9 P.M. to midnight	Sun.-Sat.	181,670	163,640

Source: A. C. Nielsen Company, Media Research Group, Nielsen Station Index data provided August 25, 1980.

Table 315.-- POSTAGE AND TELEGRAPH RATES AND NEWSPAPER PRICES, FOR HONOLULU: 1970 TO 1980

(In cents. As of July 1.)

	Domestic postage rates 1/				Newspaper price 3/	
	Letters					
Year	First ounce	Each added ounce	Postal and post cards	Telegraph rate per word 2/	Daily	Sunday
1970	6	6	5	21	10	25
1971	8	8	6	21	15	35
1972	8	8	6	21	15	35
1973	8	8	6	21	15	35
1974	10	10	8	21	20	45
1975	10	10	8	21	20	50
1976	13	11	9	21	20	50
1977	13	11	9	21	20	50
1978	15	13	10	21	20	50
1979	15	13	10	21	25	60
1980	15	13	10	21	25	60

1/ Surface mail rates. Beginning in 1959, first-class mail was routinely airlifted to and from the Mainland, and, effective October 11, 1975, surface mail service was upgraded to the level of airmail throughout the nation. Domestic airmail service was discontinued as of May 1, 1977.

2/ Per full-rate word (non-coded) between Honolulu and the Mainland.

3/ Street sales, for the *Honolulu Advertiser*, *Honolulu Star-Bulletin*, and *Sunday Star-Bulletin and Advertiser.*

Source: Postal rates from *Statistical Abstract of the United States: 1979*, p. 580. Telegraph rates from Federal Communications Commission, records, and telegraph company Honolulu offices. Newspaper rates from mastheads.

Table 316.-- TELEPHONE RATES FOR SPECIFIED TYPES OF SERVICE, FOR HONOLULU: 1970 TO 1980

(In dollars. As of July 1. Including tax.)

Year	Local call, pay phone	Honolulu to Hilo		Honolulu to California		Monthly charge, indiv. res. line
		Direct dialing 1/	Through operator 2/	Direct dialing 1/	Through operator 2/	
1970 ..	0.10	...	0.99	...	4.29	9.90
1971 ..	0.10	...	0.99	...	4.29	9.90
1972 ..	0.10	0.99	0.99	4.29	4.29	10.12
1973 ..	0.10	0.97	0.97	3.27	4.25	10.63
1974 ..	0.10	0.97	0.97	2.59	3.40	10.53
1975 ..	0.10	0.96	0.96	2.57	3.37	10.17
1976 ..	0.10	0.95	0.95	2.39	3.34	10.07
1977 ..	0.10	0.94	0.94	1.86	2.84	9.98
1978 ..	0.15	0.94	0.94	1.84	2.81	11.86
1979 ..	0.15	0.90	0.90	1.61	2.55	11.74
1980 ..	0.15	1.04	1.85	1.61	2.60	11.63

1/ Daytime calls, first three minutes. Direct dialing was introduced January 16, 1972.

2/ Station-to-station operator-handled daytime weekday calls, first three minutes.

Source: Hawaiian Telephone Company, records.

Section 17

ENERGY AND SCIENCE

This section presents statistics relating to electrical, gas and petroleum power and energy, and to research and development and scientific resources.

Electricity sales exceeded 6.2 billion kilowatt-hours in 1979, a total that has doubled since 1968. Manufactured gas sales reached 35.3 million therms in 1979, 37 percent above the figure ten years earlier. Residential rates in 1979 averaged 6.4 cents per kilowatt-hour and $1.09 per therm, both well above the corresponding rates several years earlier. Average residential use (7,321 kWh and 253 therms in 1979) has declined significantly in recent years.

The liquid fuel tax base for 1979 was approximately 961 million gallons, compared with 825 million in 1974 and 743 million in 1969. The 1979 total included 324 million gallons of gasoline, 507 million of aviation fuel, and 125 million of diesel oil. The average price for leaded premium gasoline rose from 48.7 cents per gallon in October 1973 to $1.387 in April 1980.

Total energy consumption in 1978 amounted to 253 trillion British thermal units, compared with 196 trillion BTU a decade earlier. Transportation accounted for 58 percent of the 1978 total.

The State is well served with scientific resources. A 1976 inventory reported 384 companies and agencies with research or scientific capabilities. Employment in these organizations was more than 34,000. Federal research and development obligations in Hawaii exceeded $44 million in 1978. Thirty-two patents were granted to Hawaii residents in 1979.

Information on energy and science can be obtained from reports and records of the U.S. Department of Energy, U.S. Patent and Trademark Office, National Science Foundation, Hawaii State Department of Taxation, Hawaii State Department of Regulatory Agencies, Public Utilities Division, and individual utility companies. Detailed statistics on energy consumption, with special emphasis on petroleum products, appear in Energy Use in Hawaii, published by the State Energy Office of the Department of Planning and Economic Development in November 1977. Hawaii's Scientific Resources, 1977 Directory, issued by DPED in 1977, contains information on scientific organizations and facilities in the Islands. Historical Statistics of Hawaii, Section 19, presents data for earlier years. Data for the nation as a whole can be found in the Statistical Abstract of the United States: 1979, Sections 20 and 21.

Table 317.-- CONSUMPTION OF ENERGY, BY TYPE (PHYSICAL UNITS): 1960 TO 1978

Year	Petroleum (1,000 barrels)	Hydro-electric power 1/ (million kWh)	Geo-thermal power 2/ (million kWh)	Wood and waste 2/ (million kWh)	Other types 3/
1960	21,347	0	0	0	0
1961	24,863	0	0	0	0
1962	22,557	0	0	0	0
1963	23,563	23	0	0	0
1964	25,146	115	0	0	0
1965	26,150	105	0	0	0
1966	27,944	112	0	0	0
1967	31,803	108	0	0	0
1968	35,077	94	0	30	0
1969	37,068	100	0	29	0
1970	37,988	108	0	24	0
1971	40,623	89	0	15	0
1972	41,577	91	0	18	0
1973	42,810	95	0	22	0
1974	40,818	92	0	30	0
1975	40,851	89	0	25	0
1976	41,599	93	0	29	0
1977	44,760	91	0	26	0
1978	44,821	91	0	0	0

1/ Includes industrial and utility production, and net imports of electricity.

2/ Consumed at utilities to produce electricity.

3/ Coal, natural gas (dry), and nuclear power.

Source: U.S. Department of Energy, Energy Statistics Branch, State Energy Data Report, Statistical Tables and Technical Documentation, 1960 Through 1978 (April 1980), p. 111.

Table 318.-- CONSUMPTION OF ENERGY, BY TYPE (TRILLION BTU): 1960 TO 1978

Year	Total energy consumed	Petroleum	Hydro-electric power 1/	Geo-thermal power 2/	Wood and waste 2/	Other types 3/
1960	120.193	118.606	0.000	0.000	0.000	0.000
1961	138.188	138.063	0.000	0.000	0.000	0.000
1962	123.509	125.102	0.000	0.000	0.000	0.000
1963	127.118	130.400	0.240	0.000	0.000	0.000
1964	136.374	139.006	1.205	0.000	0.000	0.000
1965	142.633	144.662	1.093	0.000	0.000	0.000
1966	156.101	154.588	1.165	0.000	0.023	0.000
1967	176.129	175.396	1.131	0.000	0.000	0.000
1968	195.703	193.062	0.979	0.000	0.316	0.000
1969	206.186	203.577	1.043	0.000	0.299	0.000
1970	211.352	209.051	1.131	0.000	0.257	0.000
1971	226.070	223.589	0.936	0.000	0.158	0.000
1972	230.254	228.671	0.941	0.000	0.189	0.000
1973	238.747	236.099	0.985	0.000	0.233	0.000
1974	228.957	224.660	0.958	0.000	0.316	0.000
1975	229.453	224.433	0.929	0.000	0.259	0.000
1976	234.181	228.963	0.962	0.000	0.305	0.000
1977	249.223	247.343	0.948	0.000	0.270	0.000
1978	253.473	247.368	0.951	0.000	0.000	0.000

1/ Includes industrial and utility production, and net imports of electricity.

2/ Consumed at utilities to produce electricity.

3/ Coal, natural gas (dry), and nuclear power.

Source: U.S. Department of Energy, Energy Statistics Branch, *State Energy Data Report, Statistical Tables and Technical Documentation, 1960 Through 1978* (April 1980), p. 111.

Table 319.-- CONSUMPTION OF ENERGY BY END-USE SECTOR: 1960 TO 1978

(Trillion Btu)

Year	Total energy consumed 1/	Residential 2/	Commercial 2/	Industrial 2/	Transportation 2/	Electric utilities 3/
1960	120.193	9.691	16.811	28.159	65.533	23.242
1961	138.188	9.943	20.443	31.561	76.241	24.356
1962	123.509	10.063	12.829	29.392	71.225	25.812
1963	127.118	9.926	10.868	30.369	75.956	27.641
1964	136.374	10.867	9.280	33.170	83.057	30.224
1965	142.633	11.742	10.281	34.956	85.653	31.573
1966	156.101	12.488	9.034	37.405	97.174	30.417
1967	176.129	13.618	9.517	40.528	112.466	31.900
1968	195.703	14.911	11.503	40.087	129.203	34.909
1969	206.186	17.792	12.552	44.604	131.237	38.721
1970	211.352	20.034	14.193	47.064	130.061	43.278
1971	226.070	21.493	13.494	48.106	142.978	47.694
1972	230.254	22.288	14.434	52.980	140.553	52.983
1973	238.747	23.613	15.554	55.141	144.439	55.730
1974	228.957	24.340	16.086	55.660	132.872	57.783
1975	229.453	22.939	16.933	56.246	133.335	58.845
1976	234.181	25.351	17.569	58.123	133.137	61.644
1977	249.223	26.050	18.258	62.077	142.838	67.923
1978	253.473	26.060	18.938	61.325	147.150	64.991

1/ Totals do not include small quantities of energy sources for which consistent historical data are not available, such as solar energy obtained by the use of thermal and photovoltaic collectors; wind energy; and geothermal, biomass, and waste energy other than that consumed at the electric utilities.

2/ Data include power from electric utilities, including electrical energy losses incurred in the generation and transmission of electricity.

3/ Distributed among the other four sectors.

Source: U.S. Department of Energy, Energy Statistics Branch, *State Energy Data Report, Statistical Tables and Technical Documentation, 1960 Through 1978* (April 1980), p. 112.

Table 320.-- ELECTRIC UTILITIES: 1969 TO 1979

Year	Customers, Dec. 31			Installed capacity, Dec. 31 (kW)	Power sold (1,000 kWh)		
	Total	Residential	Other		Total	Residential	Other
1969 ..	210,330	178,569	31,761	896,271	3,426,052	1,174,502	2,251,550
1970 ..	219,003	186,282	32,721	1,007,021	3,758,094	1,270,732	2,487,362
1971 ..	226,514	193,043	33,471	1,016,350	4,167,127	1,375,308	2,791,819
1972 ..	236,309	201,903	34,406	1,135,055	4,562,568	1,493,840	3,068,728
1973 ..	246,255	210,740	35,515	1,266,600	4,867,850	1,581,855	3,285,995
1974 ..	255,901	219,633	36,268	1,419,892	5,113,906	1,635,928	3,477,928
1975 ..	263,816	226,836	36,980	1,454,359	5,334,755	1,676,438	3,658,317
1976 ..	270,035	232,070	37,965	1,454,359	5,615,209	1,750,618	3,864,592
1977 ..	275,616	237,557	38,059	1,481,680	5,831,610	1,779,314	4,052,296
1978 ..	284,064	244,863	39,201	1,487,490	6,004,891	1,799,024	4,205,867
1979 ..	293,061	252,898	40,163	1,502,840	6,197,426	1,851,457	4,345,969

Year	Average annual use (kWh) 1/		Average rate (dollars per kWh)		Revenues ($1,000)		
	Residential	Other	Residential	Other	Total	Residential	Other
1969 ..	6,577	70,890	.026548	.019647	75,418	31,181	44,237
1970 ..	6,822	76,017	.026810	.020113	84,097	34,068	50,029
1971 ..	7,124	83,410	.028229	.021493	98,849	38,823	60,026
1972 ..	7,399	89,192	.02849	.02172	109,217	42,557	66,660
1973 ..	7,506	92,524	.03077	.02367	126,449	48,680	77,769
1974 ..	7,449	95,895	.03493	.02704	151,177	57,149	94,028
1975 ..	7,391	98,927	.04586	.03794	215,677	76,885	138,792
1976 ..	7,543	101,794	.04796	.03934	235,999	83,957	152,042
1977 ..	7,490	106,474	.05222	.04408	271,553	92,917	178,636
1978 ..	7,347	107,290	.05883	.04943	313,722	105,846	207,876
1979 ..	7,321	108,208	.06420	.05424	354,595	118,862	235,733

1/ Based on number of customers at end of year.

Source: Hawaii State Department of Regulatory Agencies, Public Utilities Division, records.

Table 321.-- ELECTRIC UTILITIES, BY ISLANDS: 1979

County or island	Customers, Dec. 31			Installed capacity, Dec. 31 (kW)	Power sold (1,000 kWh)		
	Total	Residential	Other		Total	Residential	Other
State total	293,061	252,898	40,163	1,502,840	6,197,426	1,851,457	4,345,969
Oahu	213,781	186,875	26,906	1,209,400	5,163,786	1,452,093	3,711,693
Hawaii	33,846	28,016	5,830	124,300	413,263	172,491	240,772
Kauai	15,562	13,082	2,480	62,080	184,459	67,249	117,210
Maui County	29,872	24,925	4,947	107,060	435,918	159,624	276,294
Lanai	847	679	168	-	6,094	3,601	2,493
Maui	26,933	22,573	4,360	98,960	406,926	145,352	261,574
Molokai	2,092	1,673	419	8,100	22,898	10,671	12,227

County or island	Average annual use (kWh) 1/		Average rate (dollars per kWh)		Revenues ($1,000)		
	Residential	Other	Residential	Other	Total	Residential	Other
State total	7,321	108,208	0.06420	0.05424	354,595	118,862	235,733
Oahu	7,770	137,950	0.05813	0.04850	264,414	84,411	180,003
Hawaii	6,157	41,299	0.08497	0.08258	34,541	14,657	19,884
Kauai	5,141	47,262	0.10690	0.10962	20,037	7,189	12,848
Maui County	6,404	55,851	0.07897	0.08324	35,603	12,605	22,998
Lanai	5,303	14,842	0.08184	0.09130	522	295	227
Maui	6,439	59,994	0.07678	0.08046	32,206	11,160	21,046
Molokai	6,378	29,182	0.10780	0.14103	2,875	1,150	1,725

1/ Based on number of customers at end of year.

Source: Hawaii State Department of Regulatory Agencies, Public Utilities Division, records.

Table 322.-- GAS UTILITIES: 1969 TO 1979

(Excludes bottled gas.)

Year	Customers, Dec. 31			Gas sold (1,000 therms)		
	Total	Residential	Other	Total	Residential	Other
1969 ...	36,134	34,829	1,305	25,649	11,848	13,801
1970 ...	36,142	32,163	3,979	27,831	10,891	16,940
1971 ...	36,153	32,072	4,081	30,445	9,279	21,167
1972 ...	36,083	31,806	4,277	33,322	9,321	24,000
1973 ...	35,781	31,142	4,639	34,540	8,931	25,609
1974 ...	35,228	30,620	4,608	34,363	8,096	26,267
1975 ...	34,685	30,236	4,449	35,594	8,230	27,364
1976 ...	34,264	29,873	4,391	35,568	8,121	27,447
1977 ...	33,722	29,408	4,314	34,844	7,612	27,232
1978 ...	33,413	29,091	4,322	34,919	7,388	27,532
1979 ...	33,309	29,014	4,295	35,264	7,326	27,937

Year	Average annual use (therms) 1/		Average rate (dollars per therm)		Revenues ($1,000)		
	Residential	Other	Residential	Other	Total	Residential	Other
1969 ...	340	10,576	.3588	.2156	7,227	4,251	2,976
1970 ...	339	4,257	.3619	.2227	7,714	3,941	3,773
1971 ...	289	5,187	.3699	.2308	8,317	3,432	4,885
1972 ...	293	5,612	.36843	.22681	8,878	3,434	5,444
1973 ...	287	5,520	.37518	.23121	9,272	3,351	5,921
1974 ...	264	5,700	.68361	.52267	19,264	5,535	13,729
1975 ...	272	6,151	.81723	.63583	24,125	6,726	17,399
1976 ...	272	6,251	.82767	.63369	24,115	6,722	17,393
1977 ...	259	6,313	.85883	.65821	24,462	6,537	17,925
1978 ...	254	6,370	.91647	.71792	26,536	6,770	19,766
1979 ...	253	6,505	1.09260	.89221	32,931	8,006	24,925

1/ Based on number of customers at end of year.

Source: Hawaii State Department of Regulatory Agencies, Public Utilities Division, records.

Table 323.-- GAS UTILITIES, BY ISLANDS: 1979

(Excludes bottled gas.)

Island	Customers, Dec. 31			Gas sold (therms)		
	Total	Residential	Other	Total	Residential	Other
State total	33,309	29,014	4,295	35,263,642	7,326,194	27,937,448
Oahu	30,550	26,647	3,903	32,134,889	6,736,460	25,398,429
Hawaii	2,127	1,799	328	2,390,240	446,313	1,943,927
Kauai	230	230	-	63,927	63,927	-
Maui	402	338	64	674,586	79,494	595,092

Island	Average annual use (therms) 1/		Average rate (dollars per therm)		Revenues ($1,000)		
	Residential	Other	Residential	Other	Total	Residential	Other
State total	253	6,505	1.09260	0.89221	32,931	8,006	24,925
Oahu	253	6,507	1.11818	0.91767	30,840	7,533	23,307
Hawaii	248	5,927	0.81447	0.64053	1,609	364	1,245
Kauai	278	-	0.82594	-	53	53	-
Maui	235	9,298	0.70103	0.62767	429	56	373

1/ Based on number of customers at end of year.

Source: Hawaii State Department of Regulatory Agencies, Public Utilities Division, records.

Table 324.-- SERVICE PROVIDED BY HAWAIIAN ELECTRIC CO., INC., ON OAHU: 1970 TO 1979

Year	Number of customers, Dec. 31		Net input 1/ (1,000 kWh)	Power sold (1,000 kWh)	Average annual residential use (kWh)	Average residential rate 2/ (dollars per kWh)	Installed capacity 3/ (kW) Dec. 31
	Total	Residential only					
1970 ..	168,531	144,854	3,494,059	3,275,673	7,478	0.02438	811,700
1971 ..	174,300	150,285	3,844,325	3,600,728	7,776	0.02555	811,700
1972 ..	180,794	156,249	4,175,342	3,942,679	8,108	0.02584	902,600
1973 ..	187,321	162,180	4,407,460	4,189,397	8,191	0.02812	1,005,200
1974 ..	194,043	168,525	4,641,204	4,393,616	8,110	0.03063	1,140,180
1975 ..	198,598	172,839	4,793,015	4,555,118	7,999	0.04313	1,140,180
1976 ..	201,974	175,581	5,038,978	4,761,592	8,102	0.04385	1,140,180
1977 ..	205,225	179,139	5,209,990	4,911,435	8,035	0.04810	1,140,180
1978 ..	209,907	183,519	5,331,724	5,025,540	7,875	0.05485	1,140,180
1979 ..	213,781	186,875	5,466,677	5,163,786	7,846	0.05813	1,140,180

1/ Net generated plus purchased power.
2/ Based on average number of customers during the year.
3/ Maximum generator nameplate.
Source: Hawaiian Electric Co., Inc., records.

Table 325.-- GAS UTILITY SERVICE BY GASCO, INC., FOR OAHU: 1970 TO 1979

Calendar year	Customers, Dec. 31		Gas sold 1/ (1,000 therms)		Average annual residential usage 1/ (therms)
	Total	Residential	Total	Residential	
1970 ...	33,851	29,880	26,696	10,026	336
1971 ...	33,691	29,621	29,082	8,290	280
1972 ...	33,479	29,256	31,643	8,258	282
1973 ...	33,142	28,813	32,610	8,041	279
1974 ...	32,455	28,200	32,166	7,522	267
1975 ...	31,856	27,778	32,885	7,600	274
1976 ...	31,443	27,429	32,649	7,490	276
1977 ...	30,926	26,993	31,831	7,007	260
1978 ...	30,659	26,722	31,842	6,797	254
1979 ...	30,582	26,686	32,135	6,736	252

1/ Includes liquefied petroleum gas.
Source: Gasco, Inc., records.

Table 326.-- TYPICAL RESIDENTIAL UTILITY MONTHLY RATES, BY ISLANDS: FEBRUARY 1980

[In dollars]

Utility and monthly use	Oahu	Hawaii 1/	Kauai	Maui	Molokai	Lanai
Water:						
5/8-inch meter, 5,000 gal. ...	5.13	5.90	4.50	5.65	5.65	2.95
5/8-inch meter, 10,000 gal. ..	8.33	8.55	7.00	8.30	8.30	4.65
1-inch meter, 20,000 gal.	15.85	16.85	15.00	19.55	19.55	9.30
1-1/2-inch meter, 50,000 gal..	36.80	37.50	35.00	44.75	44.75	22.00
Electricity: 2/						
250 kilowatt-hours	21.23	31.00	37.10	27.03	39.39	28.01
500 kilowatt-hours	36.41	51.79	67.62	46.85	68.29	48.82
750 kilowatt-hours	51.70	72.59	97.52	66.73	97.53	69.68
1,000 kilowatt-hours	67.38	93.89	127.41	87.11	127.47	91.04
Gas: 2/						
10 therms	15.69	11.55	11.34	10.01	...	...
25 therms	33.59	24.94	25.45	22.59	...	...
50 therms	64.17	46.54	48.49	43.31	...	...
100 therms	126.32	90.09	94.79	85.06	...	...
Telephone: 3/						
Individual line	11.40	10.20	9.70	9.70	8.30	7.50
Two-party line	9.35	8.55	8.20	8.20	7.05	6.40

1/ Water rates are those for South Hilo, North and South Kohala and Ka'u Districts; for other districts, add $0.12 per 1,000 gallons; for Kaloko Mauka (only 5/8-inch meter available) add $0.47 per 1,000 gallons plus $0.75.

2/ Includes fuel adjustment surcharge.

3/ Excludes federal excise tax (2 percent for 1980).

Source: Hawaii State Department of Regulatory Agencies, Public Utilities Division; Honolulu Board of Water Supply; Hawaii County Department of Water Supply; Kauai County Department of Water; Maui County Department of Water Supply; Koele Company, Inc.

Table 327.-- LIQUID FUEL TAX BASE: 1969 TO 1979

[In thousands of gallons. Excludes residual fuel, used in the generation of electrical power.]

Year reported 1/	All types	Gasoline	Diesel oil: Non-hwy.	Diesel oil: Hwy. use
1969	743,255	223,088	49,147	7,703
1970	754,632	235,178	58,129	8,029
1971	809,628	250,191	57,405	8,852
1972	827,825	261,452	65,163	9,523
1973	882,932	281,122	74,608	11,159
1974	824,653	270,267	75,124	11,539
1975	839,289	284,552	75,120	12,710
1976	850,261	295,704	79,884	13,561
1977	888,136	311,409	85,484	13,817
1978	917,380	324,702	99,755	15,233
1979	960,837	324,337	108,460	16,596

Year reported 1/	Liq. pet. gas: Off-hwy.	Liq. pet. gas: Hwy. use	Aviation fuel	Small boats: Gasoline	Small boats: Diesel oil
1969	674	242	460,753	226	1,424
1970	814	274	450,474	214	1,519
1971	1,044	579	489,767	231	1,559
1972	1,231	702	487,743	264	1,747
1973	1,909	453	511,502	280	1,899
1974	2,093	789	463,728	312	801
1975	1,823	1,380	462,384	411	908
1976	1,858	1,054	456,819	464	917
1977	2,036	1,280	472,654	558	899
1978	1,821	1,216	473,270	445	938
1979	2,213	1,140	506,825	410	856

1/ Liquid fuel sold in a given month is usually reported the following month. Annual totals accordingly refer to fuel sold during a 12-month period ended November 30.

Source: Hawaii State Department of Taxation, "Liquid Fuel Tax Base, Collections & Distribution" (annual report).

Table 328-- SALES OF FUEL OILS, HEATING OILS, AND KEROSINE: 1977 AND 1978

[Thousands of barrels]

Type and use	1977	1978
Total:		
Distillate-type oils	3,502	3,246
Residual-type oils	12,512	12,796
Kerosine, except jet fuel	170	146
Heating	122	108
All other use	48	38
Distillate-type heating oils	75	88
No. 1	-	1
No. 2	75	87
No. 4	-	-
Residual-type heating oils	2	37
No. 5	2	37
No. 6	-	-
Fuel oils for industrial use	927	875
Distillate-type oils	269	264
Residual-type oils	658	611
Fuel oils for oil company use	625	583
Distillate-type oils	15	30
Residual-type oils	610	553
Fuel oils for railroad use	2	2
Distillate-type oils	2	2
Fuel oils for vessel bunkering use	2,095	2,550
Distillate-type oils	1,018	1,227
Residual-type oils	1,077	1,323
Fuel oils for military use	582	594
Distillate-type oils	167	168
Residual-type oils	415	426
Fuel oils for electric utility company use 1/	10,819	10,342
Distillate-type oils	1,240	523
Residual-type oils	9,579	9,819
Oils for miscellaneous uses	881	971
Distillate-type oils	716	944
Diesel-type, on highway	329	360
Diesel-type, off highway	338	495
Other uses	49	89
Residual-type oils	171	27

1/ In 1978, the opening inventory was 1,009, the closing inventory was 708, and the amount burned was 10,643.

Source: U.S. Department of Energy, Energy Information Administration, "Sales of Fuel Oil and Kerosine in 1978," Energy Data Reports, DOE/EIA-0113(78), November 6, 1979.

Table 329.-- GASOLINE SERVICE STATIONS: 1939 TO 1977

Year	Number of stations	Sales			
		Total ($1,000)	Per station ($1,000)	Per gallon (dollars)	Per vehicle (dollars)
1939	297	8,719	29	0.19	133
1948	280	18,040	64	0.22	159
1954	332	28,776	87	0.27	169
1958	351	38,012	108	0.31	188
1963	442	56,407	128	0.36	209
1967	457	72,987	160	0.38	218
1972	480	106,688	222	0.40	239
1977	415	176,079	424	0.54	314

Year	Highway fuel consumption			Registered motor vehicles	
	Total (1,000 gal.)	Per station (1,000 gal.)	Per vehicle (gallons)	Total	Per station
1939	45,935	155	700	65,629	221
1948	81,306	290	717	113,322	405
1954	106,432	321	624	170,447	513
1958	121,940	347	602	202,434	577
1963	156,588	354	580	270,176	611
1967	194,368	425	580	335,326	734
1972	268,407	559	601	446,355	930
1977	324,449	782	578	561,575	1,353

Source: Number of stations and annual sales from U.S. Census of Retail Trade; highway fuel consumption and registered vehicles from Hawaii State Department of Transportation; ratios calculated.

Table 330.-- GASOLINE AVERAGE PRICES PER GALLON, FOR OAHU: 1973 TO 1980

(In dollars. Average prices include all applicable federal, state, and county taxes.)

Date	All types 1/	Leaded regular 2/	Unleaded regular 3/	Leaded premium 2/
1973: Oct.	...	0.452	...	0.487
Dec.	...	.477	...	.512
1974: June	...	.599	...	.632
Dec.	...	.599	...	.629
1975: June	...	.673	...	.710
Dec.	...	.691	...	.733
1976: Jan.	...	.685	0.696	.727
June	...	.684	.692	.720
Dec.	...	.702	.714	.743
1977: June	...	.723	.738	.764
Dec.	...	.722	.743	.768
1978: June	...	.741	.772	.798
Revised series 4/				
1978: June	0.778	.761	.765	.793
Dec.	.804	.778	.791	.821
1979: June	.957	.922	.956	.970
Dec.	1.150	1.087	1.164	1.175
1980: June	1.352	1.310	1.350	1.383

1/ Includes types not shown separately. Not calculated before June 1978.

2/ Survey initiated October 1973.

3/ Survey initiated January 1976.

4/ Not directly comparable to earlier data.

Source: U.S. Bureau of Labor Statistics, Retail Prices and Indexes of Fuels and Utilities (monthly, 1973-1978), Consumer Prices: Energy (monthly, 1979-present), and printouts for 1978-1979; Hawaii State Department of Planning and Economic Development, Gasoline Prices in Hawaii, 1920-1980 (Statistical Report 140, August 7, 1980), table 2.

Table 331.-- QUANTITY AND COST OF PURCHASED FUELS AND ELECTRIC ENERGY USED FOR HEAT AND POWER BY MANUFACTURING INDUSTRIES: 1976

Type of fuel or energy	Quantity, all mfg. industries		Cost (million dollars)	
	Unit	Amount	Total, all mfg. industries	Food and kindred products
Purchased fuels and electric energy	Trillion Btu's	9.6	27.8	15.3
Purchased fuels	Trillion Btu's	8.1	15.4	10.3
Distillate fuel oil	1,000 barrels	280.3	3.4	3.1
Residual fuel oil	1,000 barrels	798.3	10.0	6.0
Coal and coke	1,000 short tons	-	-	-
Natural gas	Billion cubic feet	0.6	0.5	0.3
Other fuels	. . .	...	1.0	0.8
Fuels not specified by kind	. . .	...	0.5	0.1
Electric energy:				
Purchased	Million kWh	433.9	12.4	5.1
Generated less sold	Million kWh	315.4	...	...

Source: U.S. Bureau of the Census, Annual Survey of Manufactures 1976; Fuels and Electric Energy Consumed, M76 (AS)-4.2, pages 106-107.

Table 332.-- BUNKER OIL LADEN IN HONOLULU CUSTOMS DISTRICT ON VESSELS ENGAGED IN FOREIGN TRADE: 1977 TO 1979

(In barrels of 42 gallons.)

Year	Total	American vessels		Foreign vessels	
		Fuel oil	Diesel oil	Fuel oil	Diesel oil
1977	1,728,413	241,964	35,068	376,207	1,075,174
1978	2,049,939	261,467	18,943	632,127	1,137,402
1979	1,550,905	111,171	66,414	464,493	908,827

Source: U.S. Bureau of the Census, United States Foreign Trade, Bunker Fuels, Annual 1977 (FT810-77-13, May 1978), Annual 1978 (FT810-78-13, July 1979), and Annual 1980 [sic] (FT810-79-13, April 1980).

Table 333.-- BOILERS AND PRESSURE VESSELS: DECEMBER 31, 1979

Island	Power boilers	Heating boilers	Pressure vessels 1/
State total	654	2,599	4,656
Hawaii	76	232	698
Maui	63	198	407
Lanai	3	2	25
Molokai	4	30	24
Oahu	457	2,020	3,247
Kauai	51	117	255

1/ Five cubic feet or more.

Source: Hawaii State Department of Labor and Industrial Relations, Division of Occupational Safety and Health, records.

Table 334.-- HYDROELECTRIC POWER RESOURCES: 1979

Category	Number of sites	Capacity (MW)	Energy (GWH)
Existing 1/	14	19	102
Potential incremental 2/	12	31	65
Undeveloped 3/	7	30	77

MW Megawatts (1 megawatt equals 1,000 kilowatts).

GWH Gigawatt-hours (1 gigawatt-hour equals 1,000,000 kilowatt-hours).

1/ Existing hydroelectric power facilities currently generating power.

2/ Existing dams and/or other water resource projects with the potential for new and/or additional hydroelectric capacity.

3/ Undeveloped sites where no dam or other engineering structure now exists.

Source: U.S. Army Corps of Engineers, National Hydroelectric Power Resources Study: Preliminary Inventory of Hydropower Resources, Vol. 2, Pacific Southwest Region (July 1979), page 15.

Table 335.-- HOUSING UNITS WITH SOLAR WATER HEATING INSTALLATIONS: DECEMBER 31, 1979

Type of installation	Number of housing units
Total	13,000
Single-family dwelling: 1/	
Retrofits	10,500
New construction	200
Multi-family dwelling 1/	800
Installations without permit 1/	500
Installations prior to 1977	1,000

1/ Estimate for solar units installed from 1977 through 1979.

Source: Estimated by State Energy Office, Department of Planning and Economic Development, based on data and/or estimates from the Counties, the State Department of Taxation, the Hawaiian Electric Company, and representatives of the solar industry.

Table 336.-- SCIENTIFIC ORGANIZATIONS AND RESOURCES: 1976

Type of organization	Number of organizations	Employment		
		Total	Professional	Technical
Total employing organizations	384	34,449	7,346	10,729
Organization with scientific capabilities	98	14,528	2,447	3,253
Computer science companies	54	2,510	697	1,096
R&D and allied companies	43	1,541	453	400
Testing laboratories	31	1,060	305	288
Private research agencies	39	778	299	118
Government agencies	119	14,032	3,145	5,574
Federal civilian	24	1,424	257	715
Military	10	6,118	676	3,705
State, except University of Hawaii	36	3,218	1,087	613
University of Hawaii	33	1,497	756	294
County	16	1,775	369	247

Subject	Number	Subject	Number
Professional associations:		Colleges and universities:	
Number of associations	44	Number of units	34
Regular membership	11,749	Full-time enrollment 1/	37,770
Associate membership	753	Part-time enrollment 1/	38,805
Scientific libraries:		Business and technical schools:	
Number of libraries	22	Number of units	4
Number of scientific books	846,436	Full-time enrollment 1/	763
		Part-time enrollment 1/	162

1/ Spring 1976. Because of differences in coverage and definition, these data differ from those in Section 3.

Source: Hawaii State Department of Planning and Economic Development, Hawaii's Scientific Resources. 1977 Directory, 8th edition (1977), p. 5.

Table 337.-- FEDERAL R&D OBLIGATIONS IN HAWAII: 1965 TO 1978

Fiscal year 1/	Millions of dollars
1965	41.5
1966	....
1967	....
1968	35.0
1969	37.7
1970	43.8
1971	38.3
1972	47.4
1973	47.9
1974	53.1
1975	43.0
1976	45.5
1977	36.9
1978	44.6

1/ Fiscal years ended June 30 through 1976 and September 30 thereafter. State data were first compiled for fiscal 1965, and were not collected for 1966 and 1967.

Source: National Science Foundation, Division of Science Resources Studies, R&D Economic Studies Section, information provided January 25, 1980.

Table 338.-- STATE AND LOCAL GOVERNMENT EXPENDITURES FOR RESEARCH AND DEVELOPMENT, BY CHARACTER OF WORK: FISCAL YEAR 1977

(Thousands of dollars)

Character of work	State agency expenditures	Local government expenditures 1/
Total	3,370	740
Research and development	2,873	722
Basic	3	90
Applied	1,599	227
Development	1,271	405
R&D plant	497	18

1/ City and County of Honolulu.

Source: National Science Foundation, Research and Development in State and Local Governments, Fiscal Year 1977, NSF 79-327, pp. 5, 31a, and 38.

Table 339.-- PATENTS ISSUED TO HAWAII RESIDENTS: 1973 TO 1979

(Unless otherwise indicated, data include design, plant, and reissue patents.)

Year ended --	Patents
1973: Dec. 31 1/	50
1974: June 30	55
1975: June 30	61
1976: June 30	51
1977: Sept. 30	43
1978: Sept. 30	41
1979: Sept. 30	32

1/ Excludes reissue patents.

Source: U.S. Department of Commerce, Patent and Trademark Office, Commissioner of Patents and Trademarks Annual Report, Fiscal Year 1979, p. 31.

Section 18

TRANSPORTATION

This section presents statistics relating to public roads, motor vehicles, bicycles, traffic accidents, local public transit, civil aviation, harbors, and water traffic.

Motor vehicle registration in Hawaii increased from 413,000 in 1970 to 506,000 in 1975 and 611,000 in 1979. Vehicle miles rose during the same period from 3.4 billion to 4.8 billion. Hawaii residents purchased 48,000 new passenger cars in 1979 and scrapped or shipped out approximately 21,000. By the end of 1979, 543,000 licensed drivers had access to 3,874 miles of streets and highways throughout the State. Bus passengers carried by the Honolulu Mass Transit Lines increased from 19.4 million in 1971 to 68.8 million in 1979. Registered bicycles numbered 108,000 in 1974 and 78,000 in 1979.

All scheduled interisland travel is now by air. Interisland steamer service was discontinued in 1949; hydrofoil service was initiated between Honolulu and other Island ports in 1975 and suspended early in 1978. In 1979, the two scheduled airlines and a number of air taxis reported 7.6 million interisland passengers, almost three times their 1969 total, and carried 59,000 tons of cargo. The State has 10 commercial airports, 15 general aviation, military or semi-private airports, 13 civilian heliports, 3,972 active pilots, and 18 active civil aircraft operated by air carriers.

Rapid growth is similarly evident in transpacific travel. Although surface passenger arrivals dropped from 54,000 in 1959 to 4,800 in 1978, air passengers increased during the same 19-year span from 224,000 to 9.04 million. Overseas cargo received in the State in 1977 amounted to 66,000 tons by air and 9.5 million tons by ship.

Undocumented State-registered vessels as of December 31, 1979 numbered 13,678, compared with 8,042 in 1970. Median length was 18 feet, and four-fifths were stored on land. There were also 996 documented vessels in the State in 1979, almost double the 1970 total.

The chief source for transportation statistics is the Hawaii State Department of Transportation and its Highways, Harbors and Airports Divisions and Motor Vehicle Safety Office. Other sources include the U.S. Coast Guard, Civil Aeronautics Board, Federal Aviation Administration, Army Corps of Engineers, Honolulu Department of Transportation Services and Department of Data Services, County finance departments, Cardinal Mailing Services, and individual transportation companies. Data for the entire period of record appear in Historical Statistics of Hawaii, Section 17. Similar statistics for other areas are reported in Statistical Abstract of the United States: 1979, Sections 22 and 23.

Table 340.-- MILEAGE OF STREETS AND HIGHWAYS, PAVED AND UNPAVED: 1969 TO 1979

Year (December 31)	Total	Paved	Unpaved
1969	3,511.60	3,325.60	186.00
1970 1/	3,529.10	3,047.10	482.00
1971	3,598.95	3,098.51	500.44
1972	3,611.48	3,117.38	494.10
1973	3,665.84	3,171.58	494.26
1974	3,659.44	3,269.83	389.61
1975	3,743.44	3,354.59	388.85
1976	3,797.24	3,436.53	360.71
1977	3,827.65	3,505.89	321.76
1978	3,862.43	3,540.67	321.76
1979 2/	3,874.39	3,552.63	321.76
ISLANDS: 1979			
Hawaii (1978) ...	1,450.92	1,291.23	159.69
Maui	588.52	511.77	76.75
Lanai	45.79	31.79	14.00
Molokai	126.01	114.01	12.00
Oahu	1,328.94	1,292.46	36.48
Kauai	334.21	311.37	22.84
Niihau	-	-	-

1/ Includes 284.00 miles reclassified from "paved" to "unpaved".

2/ Includes 36.27 miles of freeways (all on Oahu) and 11,220 feet of highway tunnel (10,903 on Oahu and 317 on Maui), counting each bore separately.

Source: Hawaii State Department of Transportation, Division of Highways, records.

Table 341.-- SIGNALIZED INTERSECTIONS AND METERED PARKING SPACES, BY ISLANDS: DECEMBER 31, 1977

Island	Signalized intersections	Metered parking spaces	
		On-street	Off-street
State total	523	3,542	4,092
Hawaii	28	534	409
Maui	13	-	26
Lanai	-	-	-
Molokai	-	-	18
Oahu	477	3,008	3,568
Kauai	5	-	71
Niihau	-	-	-

Source: Hawaii State Department of Accounting and General Services, Hawaii State Department of Transportation, City and County of Honolulu Department of Transportation Services, Hawaii County Department of Public Works, Kauai County Department of Public Works, and Maui County Department of Public Works.

Table 342.-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE: 1970 TO 1979

(Taxable and non-taxable, including military non-resident exempt vehicles. Data for 1970-1978 have been revised from the 1979 edition, table 280.)

Year	All vehicles registered	Motor vehicles				
		All motor vehicles	Passenger vehicles 1/	Ambulances, hearses, patrol wagons	Buses
1970	424,409	412,930	355,577	114	1,136
1971	443,563	431,419	371,705	100	1,154
1972	468,410	454,829	390,062	97	1,347
1973	499,525	484,521	413,839	99	1,724
1974	510,627	495,037	420,228	90	1,951
1975	522,421	506,434	430,043	88	2,186
1976	551,438	535,217	452,616	82	2,624
1977	580,380	563,964	475,368	81	2,888
1978	599,990	583,601	489,878	84	3,052
1979	626,841	610,570	510,353	91	3,267

Year	Motor vehicles -- continued				Trailers and semi-trailers
	Trucks 1/	Truck tractors, tow trucks	Truck crane, misc.	Motorcycles, motor scooters 2/	
1970	38,029	965	6,346	10,763	11,479
1971	46,168	1,629	774	9,889	12,144
1972	50,451	1,696	776	10,400	13,581
1973	56,002	1,747	767	10,343	15,004
1974	59,759	1,796	766	10,447	15,590
1975	63,134	1,877	733	8,373	15,987
1976	68,215	1,866	680	9,134	16,221
1977	73,762	1,848	609	9,408	16,416
1978	78,447	1,809	560	9,771	16,389
1979	84,578	1,784	511	9,986	16,271

Footnotes and source on next page.

Table 342.-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE: 1970 TO 1979 -- Con.

[1] Beginning in 1979, vans and other trucks under 6,500 lb. in personal use were legally classified as passenger vehicles, but the data shown here have been adjusted (by the Hawaii State Department of Transportation, Motor Vehicle Safety Office) to continue inclusion of such vehicles in the totals for trucks.

[2] Excluding mopeds (1.5 HP or less), which are legally classified as bicycles.

Source: City and County of Honolulu, Department of Data Systems, unpublished tabulations, as provided by the Hawaii State Department of Transportation, Motor Vehicle Safety Office.

Table 343.-- MOTOR VEHICLES REGISTERED, BY COUNTIES: 1970 TO 1979

(Taxable and non-taxable, including military non-resident exempt vehicles. Includes passenger cars, buses, trucks, and motorcycles but excludes trailers and semi-trailers.)

Year	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
1970	412,930	325,834	39,223	18,175	29,698
1971	431,419	338,219	42,227	19,592	31,381
1972	454,829	354,544	45,316	20,766	34,203
1973	484,521	375,763	49,053	22,167	37,538
1974	495,037	381,502	51,064	22,802	39,669
1975	506,434	387,558	53,124	23,764	41,988
1976	535,217	406,149	57,151	25,300	46,617
1977	563,964	424,892	60,374	26,920	59,778
1978	583,601	436,347	63,025	27,614	56,615
1979	610,570	452,449	67,718	29,492	60,911

Source: City and County of Honolulu, Department of Data Systems, unpublished tabulations, as provided by the Hawaii State Department of Transportation, Motor Vehicle Safety Office.

Table 344.-- PASSENGER VEHICLES REGISTERED, BY COUNTIES: 1970 TO 1979

(Taxable and non-taxable, including military non-resident exempt vehicles. Excludes ambulances, hearses, buses, trucks, motorcycles, and trailers.)

Year	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
1970	355,577	285,384	31,293	14,842	24,058
1971	371,705	296,985	33,490	15,784	25,446
1972	390,062	310,144	35,623	16,716	27,579
1973	413,839	327,638	38,299	17,766	30,136
1974	420,228	331,266	39,428	18,135	31,399
1975	430,043	336,953	41,048	18,873	33,169
1976	452,616	352,148	43,826	19,882	36,760
1977	475,368	367,398	46,072	21,001	40,897
1978	489,878	376,260	47,764	21,411	44,443
1979 1/ ...	510,353	388,788	51,159	22,790	47,616

1/ Beginning in 1979, vans and other trucks under 6,500 lb. in personal use were legally classified as passenger vehicles, but the data shown here have been adjusted (by the Hawaii State Department of Transportation, Motor Vehicle Safety Office) for comparability with their earlier treatment.

Source: City and County of Honolulu, Department of Data Systems, unpublished tabulations, as provided by the Hawaii State Department of Transportation, Motor Vehicle Safety Office.

Table 345.-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE, FOR COUNTIES: 1979

(Taxable and non-taxable, including military non-resident exempt vehicles.)

Type of vehicle	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
All vehicles	626,841	461,840	71,071	31,370	62,560
Motor vehicles	610,570	452,449	67,718	29,492	60,911
Passenger vehicles 1/	510,353	388,788	51,159	22,790	47,616
Ambulances 2/	91	66	13	6	6
Buses	3,267	2,392	329	174	372
Trucks 1/	84,578	51,698	14,953	6,057	11,870
Truck tractors 3/	1,784	986	457	128	213
Truck cranes 4/	511	224	132	46	109
Motorcycles 5/	9,986	8,295	675	291	725
Trailers and semi-trailers ..	16,271	9,391	3,353	1,878	1,649

1/ The data for passenger cars have been adjusted to exclude vans and other trucks under 6,500 lb. in personal use, legally classified as passenger vehicles beginning in 1979.

2/ Including hearses and patrol wagons.

3/ Including tow trucks.

4/ Including miscellaneous vehicles.

5/ Including motorscooters but excluding mopeds (1.5 HP or less), legally classified as bicycles.

Source: City and County of Honolulu, Department of Data Systems, unpublished tabulation, as revised by the Hawaii State Department of Transportation, Motor Vehicle Safety Office.

Table 346.— INVENTORY AND CHARACTERISTICS OF PRIVATE AND COMMERCIAL TRUCKS IN HAWAII: 1977

[Figures do not include government-owned vehicles, ambulances, buses, motor homes, farm tractors, open jeep models, unpowered trailer units, and trucks reported to have been junked or wrecked prior to 1977.]

Vehicular and operational characteristics	Number of trucks (thousands)	Percent of total trucks
Total trucks	70.0	100.0
Major use:		
Personal transportation	35.0	50.0
Construction	10.1	14.4
Agriculture	8.2	11.7
Retail and wholesale trade	6.4	9.1
Services	5.5	7.9
Other	4.9	7.0
Body type:		
Pickup	48.4	69.1
Panel or small van	11.2	16.0
Platform	5.1	7.3
Other	5.2	7.4
Vehicle size: 1/		
Light (10,000 pounds or fewer)	62.3	89.0
Medium (10,001 to 19,500 pounds)	2.7	3.9
Light-heavy (19,501 to 26,000 pounds)	2.1	3.0
Heavy-heavy (26,001 pounds or more)	3.0	4.3
Vehicle acquisition:		
Purchased new	38.2	54.6
Purchased used	29.3	41.9
Leased and not reported	2.4	3.4
Year model:		
1 to 4 years old	22.3	31.9
5 to 8 years old	24.0	34.3
Over 8 years old and not reported	23.7	33.9
Annual miles traveled: 2/		
Fewer than 5,000	17.1	24.4
5,000 to 9,999	20.8	29.7
10,000 to 19,999	27.3	39.0
20,000 or more	4.9	7.0
Fuel type:		
Gasoline	66.8	95.4
Diesel	2.9	4.1
LPG or other	.3	0.4

Table 346.-- INVENTORY AND CHARACTERISTICS OF PRIVATE AND COMMERCIAL TRUCKS IN HAWAII: 1977 -- Con.

[Figures do not include government-owned vehicles, ambulances, buses, motor homes, farm tractors, open jeep models, unpowered trailer units, and trucks reported to have been junked or wrecked prior to 1977.]

Vehicular and operational characteristics	Number of trucks (thousands)	Percent of total trucks
Miles per gallon:		
8.9 or fewer	7.1	10.1
9 to 11.9	11.0	15.7
12 to 14.9	18.1	25.9
15 to 19.9	14.3	20.4
20 or more	13.5	19.3
Not reported	5.9	8.4

1/ Gross vehicle weight.

2/ Annual miles traveled were imputed if not reported.

Source: U.S. Department of Commerce, Bureau of the Census, 1977 Census of Transportation: Truck Inventory and Use Survey, Hawaii, TC77-T-12 (September 1979).

Table 347.-- TAXIS IN OPERATION, BY ISLANDS: 1978 AND 1979

Year	State total	Hawaii	Maui	Lanai	Molokai	Oahu	Kauai
1978	1,771	63	99	1	3	1,563	42
1979	1,922	66	101	1	3	1,706	45

Source: Compiled by the Hawaii State Department of Planning and Economic Development from the County Departments of Finance.

Table 348-- HAWAII DRIVERS LICENSES IN FORCE: 1969 TO 1979

(As of December 31)

Year	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
1969 1/	462,502	...	...	...	...
1970	501,177	418,413	35,642	17,378	29,744
1971 1/	523,935	...	...	...	...
1972 1/	510,000	...	...	...	...
1973	495,043	399,672	45,530	20,033	32,808
1974	509,236	409,977	43,907	20,815	34,537
1975	531,375	425,370	46,891	22,153	36,961
1976	541,180	429,559	49,184	22,662	39,775
1977	541,353	424,242	51,773	23,557	41,781
1978	541,263	420,005	54,504	24,381	43,373
1979	542,905	418,532	53,706	25,593	45,074

1/ Not available by counties.

Source: Hawaii State Department of Transportation, Motor Vehicle Safety Office, records.

Table 349.-- REGISTERED BICYCLES, BY ISLANDS: 1978 AND 1979

Year	State total	Hawaii	Maui	Lanai	Molokai	Oahu	Kauai
1978	81,377	2,899	2,493	182	137	73,426	2,240
1979	77,979	3,223	2,266	127	112	70,362	1,889

Source: Compiled by the Hawaii State Department of Planning and Economic Development from the County Departments of Finance.

Table 350.-- COMPONENTS OF CHANGE IN PASSENGER VEHICLE REGISTRATION: 1971 TO 1979

Year	Number of passenger vehicles 1/			Out-shipments of automobiles and auto parts (tons)
	Net increase since previous year	New cars registered	Scrapped or shipped out	
1971 ..	19,154	35,984	16,830	16,157
1972 ..	24,847	37,484	12,637	14,394
1973 ..	31,115	41,919	10,804	16,420
1974 ..	11,102	30,932	19,830	31,423
1975 ..	11,794	33,693	21,899	21,396
1976 ..	29,017	38,006	8,989	18,627
1977 ..	28,942	44,482	15,540	24,846
1978 ..	19,610	44,383	24,773	(NA)
1979 ..	26,851	48,154	21,303	(NA)

NA Not available.

1/ Revised from The State of Hawaii Data Book 1979, table 284.

Source: Net increase from Hawaii State Department of Transportation, Motor Vehicle Safety Office, records. New cars registered from R. L. Polk & Co. data for 1971-1978 in the Federal Reserve Bank of San Francisco, Western Economic Indicators, November-December 1979, p., A-10, and data for 1979 from Cardinal Mailing Services, Ltd. Vehicles scrapped or shipped out of State computed as a residual. Outshipment tonnage from U.S. Department of the Army, Corps of Engineers, Waterborne Commerce of the United States (annual).

Table 351.-- NEW PASSENGER CAR AND TRUCK REGISTRATIONS, DOMESTIC AND FOREIGN, BY COUNTIES: 1979

Kind, origin and make of vehicle	State total 1/	City and County of Honolulu	County of Hawaii	County of Maui	County of Kauai 1/
Passenger cars	48,154	36,245	5,109	6,163	637
Domestic 2/	24,798	18,801	2,597	3,004	396
Buick	1,701	1,397	119	148	37
Chevrolet	5,582	4,278	473	678	153
Dodge	1,821	1,255	324	229	13
Ford	6,465	5,391	459	534	81
Mercury	2,289	1,478	391	389	31
Oldsmobile	1,362	955	132	255	20
Plymouth	1,352	1,008	140	201	3
Pontiac	1,504	1,324	72	82	26
Other makes 3/	2,722	1,715	487	488	32
Foreign 2/	23,356	17,444	2,512	3,159	241
Datsun	5,667	3,460	750	1,410	47
Honda	2,809	2,403	137	236	33
Mazda	2,861	2,382	272	178	29
Toyota	5,710	4,318	934	411	47
Volkswagen	3,367	2,553	204	557	53
Other makes 3/	2,942	2,328	215	367	32
Trucks	6,663	3,909	1,316	1,319	119
Domestic 2/	4,704	2,824	923	890	67
Chevrolet	1,721	1,080	332	277	32
Ford	1,686	1,039	298	330	19
Other makes 3/	1,297	705	293	283	16
Foreign 2/	1,959	1,085	393	429	52

1/ Data for County of Kauai only available through the month of April 1980.

2/ Vehicles manufactured abroad but sold under domestic nameplates (such as Dodge Colt or Ford Fiesta) are included in the domestic subtotals.

3/ Under 1,000 statewide sales.

Source: Motor Vehicle Registrations -- Hawaii, a Division of Cardinal Mailing Services, Ltd., records.

Table 352.-- MOTOR VEHICLE FUEL CONSUMPTION AND VEHICLE MILES: 1969 TO 1979

Year and county	Highway fuel consumption 1/		Vehicle miles of travel 2/	
	Total (1,000 gallons)	Gallons per vehicle	Total (millions)	Per vehicle
1969	225,917	605	3,162.8	8,467
1970	243,482	602	3,408.9	8,428
1971	261,476	615	3,660.7	8,609
1972	268,407	601	3,757.7	8,414
1973	289,847	608	4,057.9	8,511
1974	279,996	574	3,919.9	8,038
1975	296,160	590	4,146.2	8,263
1976	308,151	574	4,314.1	8,041
1977	324,449	578	4,542.3	8,088
1978	338,440	583	4,738.2	8,164
1979	339,989	560	4,759.9	7,834
COUNTIES: 1979				
City and Co. of Honolulu ..	249,257	555	3,489.6	7,764
Hawaii County	41,692	617	583.7	8,637
Kauai County	15,963	535	223.5	7,493
Maui County	33,077	545	463.1	7,633

1/ Includes gasoline, diesel oil, and butane gas.

2/ Based on an average of 14 miles per gallon.

Source: Hawaii State Department of Transportation, Highways Division, annual releases and records.

Table 353.-- ANNUAL AVERAGE OF QUARTERLY HIGHWAY SPEED MONITORING DATA: OCTOBER 1977 TO SEPTEMBER 1978

Speed measure	Interstate		Multi-lane divided	2-lane rural
	Urban	Rural		
Average speed (miles per hour)	54.1	56.3	52.6	52.0
Median speed (miles per hour)	53.9	56.1	52.3	51.8
85th percent speed (miles per hour) ...	59.6	62.4	58.8	58.5
Percent exceeding --				
55 miles per hour	39	54	32	30
60 miles per hour	18	22	12	11
65 miles per hour	3	6	4	4

Source: U.S. Department of Transportation, Federal Highway Administration, Highway Statistics, 1978, p. 49.

Table 354.-- MAJOR TRAFFIC ACCIDENTS, TRAFFIC INJURIES, AND TRAFFIC DEATHS: 1970 TO 1979

Year	Major traffic accidents 1/		Persons injured or killed	
	Total	Fatal	Injured only	Killed
1970	18,172	136	11,743	153
1971	18,048	131	10,934	154
1972	18,259	126	11,141	146
1973	19,544	119	11,860	136
1974	14,855	119	10,022	129
1975	13,895	130	10,554	146
1976	14,860	137	11,667	149
1977	16,188	139	12,245	154
1978	18,545	175	13,327	195
1979	19,158	183	13,963	205
COUNTIES: 1979				
Honolulu	14,350	105	10,181	118
Hawaii	2,125	35	1,726	38
Kauai	808	11	570	15
Maui	1,875	32	1,486	34

1/ Traffic accidents with damage of $300 or more ($100 or more before July 1, 1974) or causing injury or death.

Source: Hawaii State Department of Transportation, Highways Division, Major Traffic Accidents, State of Hawaii (annual) and records.

Table 355.-- BUS SERVICE, FOR OAHU: 1970 TO 1979

(Service provided by Honolulu Rapid Transit Co., Ltd., through December 31, 1970 and by City and County of Honolulu beginning March 1, 1971.)

Year	Number of buses, Dec. 31	Bus mileage 1/	Passengers 2/
1970 3/	141	4,611,357	30,434,906
1971 4/	108	2,986,724	19,413,259
1972	143	4,964,044	31,031,764
1973	315	7,973,393	36,741,009
1974	333	11,670,774	50,519,626
1975	350	13,328,501	58,295,732
1976	350	15,547,127	64,585,334
1977	350	16,242,537	66,311,882
1978	350	15,991,798	67,746,396
1979	350	15,915,000	68,765,000

1/ All categories of service through 1978 and revenue vehicle miles (estimated) thereafter. Calendar year data.

2/ All categories of service through 1978 and revenue passengers (including senior citizens) as estimated for 1979. Calendar year data.

3/ Passenger total excludes 2,277,502 zone fares.

4/ Bus service by HRT was terminated by a strike that began January 1. The City and County of Honolulu commenced service March 1.

Source: City and County of Honolulu, Department of Transportation Services, records.

Table 356.-- BUS PASSENGERS, BY FARE CATEGORY, FOR OAHU: 1977 TO 1979

(Calendar year data for City and County of Honolulu bus system.)

Fare category	1977	1978	1979 1/
All passengers	66,311,882	67,746,396	68,865,260
Adults, full fare	32,223,015	32,873,747	33,007,200
Students	14,899,375	15,370,817	15,815,950
School subsidy	76,532	62,610	75,172
Stadium express	11,575	14,824	15,795
Senior citizens	7,337,243	7,461,545	7,564,150
Chartered service	34,428	22,651	9,293
Free transfers	11,729,714	11,940,202	12,377,700

1/ Monthly pass program implemented November 1; figures are estimates.

Source: City and County of Honolulu, Department of Transportation Services, records.

Table 357.-- BUS REVENUES AND FARES, FOR OAHU: 1970 TO 1980

Year	Revenues (dollars)	Cash fares (cents)	
		Full	School
HONOLULU RAPID TRANSIT CO., LTD. 1/			
1970	4,970,000	25	15
CITY AND COUNTY OF HONOLULU 2/			
1971 3/	1,246,351	25	10
1972	4,445,817	25/50	10/25
1973	5,254,908	25/50	10/25
1974	6,807,147	25	10
1975	7,990,505	25	10
1976	9,007,134	25	10
1977	9,629,349	25	10
1978	9,686,876	25	10
1979	9,931,000	25	10
1980 4/	(NA)	50	25

NA Not available.

1/ Calendar year data for revenues and December 31 data for cash fares.

2/ Fiscal years ending June 30 for revenues; June 30 data for cash fares.

3/ Service commenced March 1; revenues are for 4-month period.

4/ New fare structure (including a monthly pass program) effective November 1, 1979.

Source: HRT data from Hawaii State Department of Regulatory Agencies, Public Utilities Division, records; other data from City and County of Honolulu, Department of Transportation Services, records.

Table 358.-- CHARACTERISTICS OF TRAVEL TO WORK, FOR OAHU: 1976

Major mode of transportation from home to work	Number of workers (thousands)	Median distance from home to work (miles)	Median time taken to get to work (minutes)
All workers	308	...	...
Not working at home	298	6.5	21.6
Workers using vehicles	286	7.0	22.2
Auto	230	7.2	21.1
Truck	17	12.6	26.8
Auto or truck	246	7.4	21.4
Drives alone	171	7.3	20.8
Carpool	75	7.7	23.3
Shares driving	15	11.2	26.9
Drives others	29	8.5	25.5
Rides with someone	31	5.5	19.8
Public transportation 1/ ..	34	4.8	29.0
Bus	34	4.9	29.1
Other means 2/	6	3.3	16.4
Bicycle	3	...	...
Walks only	12	0.6	9.3
Works at home	4	...	...
Not reported	6	5.5	18.2

1/ Includes workers using taxicabs.

2/ Includes workers using motorcycles and all other means not listed.

Source: U.S. Bureau of the Census, "Selected Characteristics of Travel to Work in 20 Metropolitan Areas: 1976," Current Population Reports, Special Studies, Series P-23, No. 72, September 1978.

Table 359.-- STEAM RAILROAD MILEAGE AND PASSENGERS: 1970 TO 1979

Calendar year	Miles of track	Passengers
1970 1/	6	341,882
1971	6	
1972 2/	6	(NA)
1973 3/	6	35,079
1974	6	62,619
1975	6	70,974
1976	6	80,362
1977 4/	6	85,933
1978 4/	6	94,115
1979	6	103,206

NA Not available.

1/ The Lahaina, Kaanapali & Pacific Rail Road commenced service on May 10, 1970. Previously, rail passenger service had been available on Maui until 1936, Hawaii until 1946, and Oahu until 1947.

2/ Service suspended October 10, 1972-June 29, 1973.

3/ Service resumed June 30, 1973.

4/ Revised.

Source: Lahaina, Kaanapali & Pacific Rail Road, records.

Table 360.-- TRANSPACIFIC PASSENGER ARRIVALS AND DEPARTURES, BY MODE OF TRAVEL: 1969 TO 1980

Year	Surface passengers 1/ (years ended June 30)			Air passengers 2/ (calendar years)		
	Arrivals	Departures	Through	Arrivals	Departures	Through
1969	24,089	21,339	(NA)	1,766,720	1,769,087	270,340
1970	13,267	13,699	(NA)	2,190,809	2,158,577	893,890
1971	8,943	8,024	(NA)	2,296,119	2,304,570	729,237
1972	10,725	8,820	(NA)	2,540,472	2,550,199	733,362
1973	9,742	7,585	(NA)	2,866,003	2,913,446	870,378
1974	5,756	5,975	(NA)	3,009,769	2,964,992	885,122
1975	5,795	5,284	(NA)	3,181,580	3,134,774	956,576
1976	5,829	5,987	(NA)	3,496,645	3,432,908	816,915
1977	5,940	5,476	(NA)	3,667,756	3,615,717	714,150
1978	4,763	4,151	(NA)	4,131,466	4,054,544	854,276
1979	551	318	11,536	4,245,032	4,148,645	971,452
1980	399	353	11,421	(NA)	(NA)	(NA)

NA Not available.

1/ Data limited to revenue passengers at the Port of Honolulu. The decline in passenger volumes after 1977 reflects the termination of service by the Mariposa and Monterey on April 2, 1978.

2/ Includes nonrevenue passengers beginning in 1970. The treatment of through passengers was apparently changed after 1969.

Source: Hawaii State Department of Transportation, Harbors Division, records (for surface passengers, 1978 and earlier years); Davies Marine Agencies, Inc., records (for surface passengers, 1979 and 1980); Hawaii State Department of Transportation, Airports Division, tabular releases and records (for air passengers).

Table 361.-- INTERISLAND PASSENGER ARRIVALS, BY MODE OF TRAVEL: 1969 TO 1979

Calendar year	Surface arrivals 1/	Air arrivals 2/
1969	-	2,724,622
1970	-	2,992,777
1971	-	3,380,031
1972	-	4,093,338
1973	-	4,809,097
1974	-	5,174,914
1975	71,807	5,321,616
1976	196,366	5,873,138
1977	270,128	6,413,847
1978	11,000	7,341,815
1979	-	7,578,877

1/ Revenue passengers. Scheduled interisland passenger service by hydrofoil was begun June 15, 1975 and terminated January 15, 1978. The 1978 figure is an estimate based on the daily average for 1977.

2/ Excludes nonrevenue passengers before 1970. Air taxi service was seriously underreported before 1977.

Source: Hawaii State Department of Transportation, Airports Division and Harbors Division, records.

Table 362.-- AIRPORTS AND HELIPORTS, BY CONTROL, BY ISLANDS: JUNE 30, 1980

Island	Airports 1/				Heliports 2/		
	State		Military	Semi-private	State		Semi-private
	Commercial	General aviation			Commercial	General aviation	
State total	10	4	8	3	2	1	10
Hawaii	3	1	1	1	-	-	2
Maui	2	-	-	1	-	-	2
Kahoolawe	-	-	-	-	-	-	-
Lanai	1	-	-	-	-	-	-
Molokai	2	-	-	-	-	-	-
Oahu	1	2	4	-	1	1	-
Kauai	1	1	1	1	1	-	6
Niihau	-	-	-	-	-	-	-
French Frigate Shoals	-	-	1	-	-	-	-
Kure Atoll	-	-	1	-	-	-	-

1/ Excludes private airports (about 16 on Hawaii, about 7 on Kauai, and not available for most of the other islands).

2/ Excludes military heliports (more than 20 in the State) and private heliports (not available).

Source: Hawaii State Department of Transportation, Airports Division, information provided July 15, 1980.

Table 363.-- AIRCRAFT MOVEMENTS, BY TYPE OF AIRCRAFT, AT STATE OWNED AIRPORTS: 1979

Airport	All movements	Air carrier	Air taxi	General aviation	Military
Honolulu International	412,739	133,653	85,177	162,055	31,854
Gen. Lyman	51,703	17,893	7,021	18,408	8,381
Kahului	127,477	41,400	35,503	44,096	6,478
Lihue	71,033	27,123	25,609	16,371	1,930
Ke-ahole	92,235	15,602	18,088	46,299	12,246
Molokai	72,024	5,137	49,146	14,779	2,962

Source: Hawaii State Department of Transportation, Airports Division.

Table 364.-- PILOTS, CIVIL AIRCRAFT, AND AIRCRAFT OPERATIONS: 1969 TO 1979

Year	Active pilots, Dec. 31 1/	U.S. active civil aircraft, Dec. 31		Aircraft operations 2/		
		Air carrier	General aviation	Honolulu International Airport	General Lyman Field, Hilo	Kahului Airport
1969 ..	1,976	20	206	339,645	46,339	69,135
1970 ..	2,218	20	241	300,629	52,183	77,451
1971 ..	2,409	17	249	294,874	56,167	76,768
1972 ..	2,526	(NA)	(NA)	297,861	50,333	75,467
1973 ..	2,786	291		309,144	48,138	75,478
1974 ..	2,956	16	308	305,724	47,715	75,186
1975 ..	2,902	17	341	319,781	51,145	77,062
1976 ..	3,037	21	365	320,565	52,679	90,455
1977 ..	3,241	21	*541	329,926	60,377	100,655
1978 ..	3,586	18	(NA)	379,106	52,677	125,291
1979 ..	3,972	(NA)	(NA)	412,739	51,703	127,477

* Estimated from sample survey with a standard error of 255.

NA Not available.

1/ Data for 1969, 1971 and 1973-1978 include active pilots in American Samoa, Guam, and the Trust Territory as well as those in Hawaii.

2/ An aircraft operation is an aircraft arrival or departure.

Source: Federal Aviation Administration, FAA Statistical Handbook of Aviation (annual), and records; Hawaii State Department of Transportation, Air Transportaion Facilities Division, records.

Table 365.-- CHARACTERISTICS OF INTRA-HAWAII CERTIFICATED ROUTE AIRLINES: 1969 TO 1979

Subject	1969	1978	1979
Number of airlines 1/	2	2	2
Aircraft revenue departures 2/ (1,000)	76.0	83.3	85.8
Aircraft revenue miles 2/ (1,000)	8,697	9,962	10,303
Average airborne speed 2/ (miles per hour)	281	323	316
Average available seats per aircraft 2/	93.7	128.6	130.4
Revenue passengers: 2/			
Enplanements (1,000)	2,442	6,488	6,766
Load factor (percent)	42.3	66.4	65.2
Revenue ton-miles (1,000):			
Freight plus express	2,745	3,832	2,688
Mail	920	1,083	1,090
Number of employees 3/	2,233	2,606	2,743
Operating revenues ($1,000)	35,753	150,543	155,010
Operating profit or loss ($1,000)	-1,654	4,310	2,011
Average passenger revenues per revenue passenger-mile 2/ (cents)	10.1	16.0	17.2
Average freight revenues per revenue ton-mile 2/ (dollars)	0.71	1.39	1.73

1/ Aloha Airlines, Inc., and Hawaiian Airlines, Inc.

2/ Scheduled service only.

3/ December, 1969 and 1979; September, 1978.

Source: Civil Aeronautics Board, Handbook of Airline Statistics 1973, and CAB Form 41 schedules submitted by air carriers to CAB.

Table 366.-- AIR CARGO AND AIRMAIL: 1970 TO 1979

(In thousands of pounds)

Calendar year	Overseas air cargo		Overseas airmail		Interisland 1/	
	Out-going	In-coming	Out-going	In-coming	Air cargo: incoming	Airmail: incoming
1970	37,553	54,285	21,362	18,109	52,139	14,141
1971 2/ ...	67,131	116,591	17,915	24,883	51,389	14,332
1972 3/ ...	55,908	108,178	16,665	22,739	59,900	14,774
1973	57,494	87,834	16,123	21,001	69,710	16,453
1974	79,054	96,393	16,185	21,528	79,576	16,594
1975	95,287	112,338	36,934		81,515	17,830
1976	118,478	136,017	39,407		86,818	19,024
1977	132,401	133,352	36,938		82,676	17,065
1978	139,004	135,347	37,061		82,872	15,199
1979	121,702	121,205	17,497	17,577	118,555	15,364

1/ Air taxi service seriously underreported before 1977.

2/ Data reflect the shipping strike of July 1, 1971 - October 6, 1971.

3/ Data reflect the shipping strikes of January 17 - February 19, and October 25 - December 7, 1972.

Source: Hawaii State Department of Transportation, Airports Division, tabular releases and records.

Table 367.-- PASSENGERS, CARGO, AND MAIL, BY AIRPORT: 1979

Airport	Passengers 1/		Cargo (1,000 lb.)		Mail (1,000 lb.)	
	In	Out	In	Out	In	Out
OVERSEAS						
Total	4,245,032	4,148,645	121,205	121,702	17,577	17,497
Honolulu	4,152,767	4,022,440	115,818	100,627	17,577	17,147
Gen. Lyman	92,265	126,205	5,387	21,075	-	350
INTERISLAND						
Total	7,578,877	7,578,877	118,555	118,555	15,364	15,364
Honolulu	3,141,669	3,217,841	39,554	70,738	5,120	9,555
Gen. Lyman	624,237	543,020	18,970	23,995	2,728	1,865
Upolu	1,089	1,021	-	-	-	-
Waimea-Kohala ...	13,471	11,661	379	986	-	-
Ke-ahole	618,403	660,309	8,696	4,565	1,593	713
Kahului	1,684,816	1,662,395	33,388	10,366	3,412	1,717
Hana	14,865	15,044	2	1	-	-
Kaanapali	58,901	60,058	-	-	8	-
Molokai	134,925	124,204	1,226	767	404	95
Kalaupapa	4,456	3,853	195	16	18	5
Lanai	25,641	24,833	852	120	45	31
Lihue	1,249,221	1,247,285	15,268	6,990	2,036	1,381
Other airports ..	7,183	7,353	25	11	-	-

1/ Revenue and non-revenue, excluding Military Airlift Command (MAC). Also excludes overseas passengers in transit (971,452, all through Honolulu International Airport).

Source: Hawaii State Department of Transportation, Airports Division, tabular release and errata sheet.

Table 368.-- AIRLINE PASSENGER ORIGINS AND DESTINATIONS: 1978

(Top city pairs originating or terminating passengers and revenue passenger-miles, ranked by passengers. Data limited to domestic operations in scheduled service. Figures are combined totals in both directions.)

City pair in both directions 1/ (in order of passenger rank)	Inter-city distance (miles)	Passenger		Passenger-miles	
		U.S. rank	Number (1,000)	U.S. rank	Number (1,000)
Honolulu-Lihue	102	10	845	317	87,425
Honolulu-Kahului	100	14	734	371	73,557
Honolulu-Los Angeles	2,569	23	549	7	1,421,096
Honolulu-Hilo	216	30	495	238	109,964
Honolulu-San Francisco	2,397	67	315	14	773,967
Honolulu-Kona	169	78	277	555	48,437
Honolulu-Seattle	2,679	180	159	38	440,066
Honolulu-New York	4,973	191	154	13	775,073
Kahului-Los Angeles	2,499	192	153	46	409,580
Honolulu-Chicago	4,251	234	125	27	535,194
Lihue-Los Angeles	2,629	312	96	81	258,467
Kahului-San Francisco	2,338	332	92	96	229,989
Honolulu-Portland	2,603	361	85	95	230,178
Honolulu-Washington	4,833	736	44	100	215,697
Honolulu-Boston	5,095	762	42	98	216,436

1/ Includes all cities in Hawaii included in top 100 U.S. city pairs, as ranked either by number of passengers or number of passenger-miles.

Source: Civil Aeronautics Board, *Domestic Origin-Destination Survey of Airline Passenger Traffic*, Vol. XI-4-1, Fourth Quarter 1978.

Table 369.-- REGULAR ONE-WAY FARES AND SCHEDULED FLIGHT TIMES FOR FLIGHTS BY UNITED AIRLINES BETWEEN SAN FRANCISCO AND HONOLULU: 1978 TO 1980

Subject	Effective date of change in fare					
	May 1, 1978	Aug. 20, 1978	Apr. 16, 1979	Aug. 1, 1979	Aug. 8, 1979	Oct. 1, 1979
First class, F 1/	206.08	212.08	225.09	235.09	247.10	270.10
Fare	203.00	209.00	222.00	232.00	244.00	267.00
Tax	3.08	3.08	3.09	3.09	3.10	3.10
Coach, weekend, YW 1/ ..	144.06	148.06	156.06	163.06	171.06	187.07
Fare	141.00	145.00	153.00	160.00	168.00	184.00
Tax	3.06	3.06	3.06	3.06	3.06	3.07
Coach, weekday, YX 1/ ..	129.05	133.05	141.05	148.06	156.06	172.06
Fare	126.00	130.00	138.00	145.00	153.00	169.00
Tax	3.05	3.05	3.05	3.06	3.06	3.06
Economy, weekend, KW 1/	137.05	141.05	149.06	155.06	163.06	179.07
Fare	134.00	138.00	146.00	152.00	160.00	176.00
Tax	3.05	3.05	3.06	3.06	3.06	3.07
Economy, weekday, KX 1/	121.04	126.05	134.05	140.05	148.06	164.06
Fare	118.00	123.00	131.00	137.00	145.00	161.00
Tax	3.04	3.05	3.05	3.05	3.06	3.06
Aircraft	B-747	B-747	B-747	B-747	B-747	B-747
Flight time 2/	5:02	5:02	5:02	5:02	5:02	5:02

Continued on next page.

Table 369.-- REGULAR ONE-WAY FARES AND SCHEDULED FLIGHT TIMES FOR FLIGHT BY UNITED AIRLINES BETWEEN SAN FRANCISCO AND HONOLULU: 1978 TO 1980 -- Con.

Subject	Effective date of change in fare				
	Nov. 1, 1979	Jan. 1, 1980	June 1, 1980	Aug. 1, 1980	Oct. 1, 1980
First class, F 1/	280.11	302.12	319.13	351.14	365.11
Fare	277.00	299.00	316.00	348.00	365.00
Tax	3.11	3.12	3.13	3.14	0.11
Coach, weekend, YW 1/ .	194.08	209.08	221.09	243.10	252.08
Fare	191.00	206.00	218.00	240.00	252.00
Tax	3.08	3.08	3.09	3.10	0.08
Coach, weekday, YX 1/ .	184.07	199.08	211.08	233.09	252.08
Fare	181.00	196.00	208.00	230.00	252.00
Tax	3.07	3.08	3.08	3.09	0.08
Economy, weekend, KW 1/	186.07	(3/)	(3/)	(3/)	(3/)
Fare	183.00	(3/)	(3/)	(3/)	(3/)
Tax	3.07	(3/)	(3/)	(3/)	(3/)
Economy, weekday, KX 1/	176.07	(3/)	(3/)	(3/)	(3/)
Fare	173.00	(3/)	(3/)	(3/)	(3/)
Tax	3.07	(3/)	(3/)	(3/)	(3/)
Aircraft	B-747	B-747	B-747	B-747	B-747
Flight time 2/	5:02	5:02	5:02	5:02	5.02

1/ Total regular one-way fare, including taxes, in dollars.

2/ Average scheduled flight time eastbound and westbound, in hours and minutes.

3/ Economy fares were discontinued effective January 1, 1980.

Source: United Airlines, printed schedules and records.

Table 370.-- REGULAR ONE-WAY FARES AND SCHEDULED FLIGHT TIMES FOR SPECIFIED INTERISLAND FLIGHTS BY HAWAIIAN AIRLINES: 1970 TO 1980

Subject	Effective date of change in fare					
	July 1, 1970	May 12, 1973	Jan. 15, 1974	Jan. 1, 1975	Feb. 1, 1976	Oct. 1, 1977
HONOLULU - HILO						
Total one-way fare 1/	26.00	26.64	27.64	28.38	30.00	32.00
Fare	24.07	24.07	25.00	25.93	27.78	29.63
Tax	1.93	1.93	2.00	2.07	2.22	2.37
Security charge ...	-	0.64	0.64	0.38	-	-
Aircraft	DC-9-30	DC-9-30	DC-9-30	DC-9-30	DC-9-50	DC-9-50
Flight time 2/	0:42	0:41	0:41	0:41	0:40	0:40
HONOLULU - MAUI						
Total one-way fare 1/	19.00	19.64	20.64	21.38	23.00	25.00
Fare	17.59	17.59	18.52	19.44	21.30	23.15
Tax	1.41	1.41	1.48	1.56	1.70	1.85
Security charge ...	-	0.64	0.64	0.38	-	-
Aircraft	DC-9-30	DC-9-30	DC-9-30	DC-9-30	DC-9-50	DC-9-50
Flight time 2/	0:28	0:27	0:27	0:27	0:27	0:27
HONOLULU - KAUAI						
Total one-way fare 1/	19.00	19.64	20.64	21.38	23.00	25.00
Fare	17.59	17.59	18.52	19.44	21.30	23.15
Tax	1.41	1.41	1.48	1.56	1.70	1.85
Security charge ...	-	0.64	0.64	0.38	-	-
Aircraft	DC-9-30	DC-9-30	DC-9-30	DC-9-30	DC-9-50	DC-9-50
Flight time 2/	0:27	0:27	0:27	0:27	0:27	0:26

Continued on next page.

Table 370.-- REGULAR ONE-WAY FARES AND SCHEDULED FLIGHT TIMES FOR SPECIFIED INTERISLAND FLIGHTS BY HAWAIIAN AIRLINES: 1970 TO 1980 -- Con.

Subject	Effective date of change in fare					
	Apr. 8, 1978	Feb. 15, 1979	Jun. 1, 1979	Aug. 1, 1979	Sept. 1, 1979	Nov. 1, 1979
HONOLULU - HILO						
Total one-way fare 1/	34.00	35.00	36.00	39.00	41.00	42.00
Fare	31.48	32.41	33.33	36.11	37.96	38.89
Tax	2.52	2.59	2.67	2.89	3.04	3.11
Aircraft	DC-9-50	DC-9-50	DC-9-50	DC-9-50	DC-9-50	DC-9-50
Flight time 2/	0:40	0:40	0:40	0:40	0:40	0:40
HONOLULU - MAUI						
Total one-way fare 1/	27.00	28.00	29.00	30.00	31.00	32.00
Fare	25.00	25.93	26.85	27.78	28.70	29.63
Tax	2.00	2.07	2.15	2.22	2.30	2.37
Aircraft	DC-9-50	DC-9-50	DC-9-50	DC-9-50	DC-9-50	DC-9-50
Flight time 2/	0.27	0.27	0.27	0.27	0.27	0.27
HONOLULU - KAUAI						
Total one-way fare 1/	27.00	28.00	29.00	30.00	31.00	32.00
Fare	25.00	25.93	26.85	27.78	28.70	29.63
Tax	2.00	2.07	2.15	2.22	2.30	2.37
Aircraft	DC-9-50	DC-9-50	DC-9-50	DC-9-50	DC-9-50	DC-9-50
Flight time 2/	0.26	0.26	0.26	0.26	0.26	0.26

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Table 370.-- REGULAR ONE-WAY FARES AND SCHEDULED FLIGHT TIMES FOR SPECIFIED INTERISLAND FLIGHTS BY HAWAIIIAN AIRLINES: 1970 TO 1980 -- Con

Subject	Effective date of change in fare					
	Dec. 1, 1979	Jan. 4, 1980	Mar. 1, 1980	May 2, 1980	June 1, 1980	Sept. 1, 1980
HONOLULU - HILO						
Total one-way fare 1/	43.00	45.00	49.00	50.00	53.00	56.00
Fare	39.81	41.67	45.37	46.30	49.07	51.85
Tax	3.19	3.33	3.63	3.70	3.93	4.15
Aircraft	DC-9-50	DC-9-50	DC-9-50	DC-9-50	DC-9-50	DC-9-50
Flight time 2/	0:40	0:40	0:40	0:40	0:40	0:40
HONOLULU - MAUI						
Total one-way fare 1/	33.00	34.00	38.00	39.00	41.00	44.00
Fare	30.56	31.48	35.19	36.11	37.96	40.74
Tax	2.44	2.52	2.81	2.89	3.04	3.26
Aircraft	DC-9-50	DC-9-50	DC-9-50	DC-9-50	DC-9-50	DC-9-50
Flight time 2/	0:27	0:27	0:27	0:27	0:27	0:27
HONOLULU - KAUAI						
Total one-way fare 1/	33.00	34.00	38.00	39.00	41.00	44.00
Fare	30.56	31.48	35.19	36.11	37.96	40.74
Tax	2.44	2.52	2.81	2.89	3.04	3.26
Aircraft	DC-9-50	DC-9-50	DC-9-50	DC-9-50	DC-9-50	DC-9-50
Flight time 2/	0:26	0:26	0:26	0:26	0:26	0:26

1/ Total regular one-way fare, including taxes and other charges, in dollars.

2/ Average scheduled flight time eastbound and westbound, in hours and minutes

Source: Hawaiian Airlines, printed schedules and records.

Table 371.-- STATE COMMERCIAL HARBORS: 1978

Island and harbor	Harbor entrance depth (feet)	Harbor basin			Piers (linear feet)	Storage area 1/ (1,000 square feet)	
		Depth (feet)	Length (feet)	Width (feet)		Shedded	Open
Hawaii:							
Hilo	35	35	2,300	1,400	2,613	64	341
Kawaihae	40	35	1,500	1,450	1,015	30	73
Maui:							
Kahului	35	35	2,400	2,050	2,317	162	280
Molokai:							
Kaunakakai	23	23	1,500	600	687	6	288
Oahu:							
Honolulu:							
Main	40	35	3,300	1,520	17,855	2,132	6,554
Kapalama		35	3,400	1,000			
Kauai:							
Nawiliwili	40	35	1,950	1,540	1,140	69	73
Port Allen	35	35	1,500	1,200	1,324	24	33

1/ Revised from 1978 edition, table 316.

Source: Hawaii State Department of Transportation, Water Transportation Facilities Division, data supplied March 30, 1979.

Table 372.-- DOCUMENTED AND NUMBERED VESSELS REGISTERED IN HAWAII: 1970 TO 1979

Year	Documented vessels 1/		Numbered vessels 2/	
	Date	Number	Date	Number
1970	June 30	553	Dec. 31	8,042
1971	June 30	597	Dec. 31	8,803
1972	June 30	621	Dec. 31	10,250
1973	June 30	692	Dec. 31	12,049
1974	Aug. 22	707	Dec. 31	11,843
1975	Sept. 1	797	Dec. 31	12,956
1976	Dec.	802	Dec. 31	13,130
1977	Dec. 7	924	Dec. 31	13,165
1978	Dec. 31	987	Dec. 31	13,695
1979	Dec. 31	996	Dec. 31	13,678

1/ Vessels documented under the laws of the United States with the U.S. Coast Guard in Hawaii. All vessels over five net tons, used for commercial purposes, must be documented. In addition, yachts over five net tons may be documented.

2/ Non-documented numbered vessels registered with the Hawaii State Department of Transportation. Any mechanically propelled boat (including those with auxiliary engines), and any boat powered solely by sail if over eight feet in length, must be numbered.

Source: U.S. Coast Guard, records; Hawaii State Department of Transportation, Report of Undocumented Vessel Registration (annual).

Table 373.-- UNDOCUMENTED STATE-REGISTERED VESSELS: DECEMBER 31, 1979

Subject	Number	Subject	Number
Certificates outstanding	13,678	Type of vessel:	
		Cabin motorboat	1,832
Length:		Open motorboat	5,117
Under 16 feet	5,609	Runabout	3,322
16 to less than 26 feet	6,760	Sail/inboard	532
26 to less than 40 feet	1,119	Sail/outboard	684
40 to 65 feet	175	Sail only	1,542
Over 65 feet	6	Motor vessel over 65 feet	6
Dealers or manufacturers	9	Other	634
		Dealers or manufacturers	9
Hull materials: 1/			
Wood	2,762	Uses:	
Steel	43	Pleasure	12,097
Aluminum	461	Commercial fishing	1,004
Plastic	9,933	Charter fishing	24
Other	470	Commercial passenger	56
		Other commercial	29
Propulsion: 1/		Livery	100
Inboard	928	Dealers or manufacturers	9
Outboard	7,757	Youth group	44
Inboard/outboard	1,961	Government	242
Sail/inboard	543	Other	73
Sail/outboard	627		
Sail only	1,579	Island kept: 1/	
Other	274	Hawaii	1,773
		Kauai	1,051
Type of storage: 1/		Lanai	53
On water	2,780	Maui	835
On land	10,889	Molokai	226
		Oahu	9,731

1/ Excludes dealer and manufacturer registrations (9).

Source: Hawaii State Department of Transportation, Harbors Division, Report of Undocumented Vessel Registration (annual).

Table 374.-- SHIP ARRIVALS AT THE PORT OF HONOLULU: 1968 TO 1979

(Years ended June 30.)

Year	Overseas vessels		Interisland vessels	
	Number	Gross tonnage	Number	Gross tonnage
1968	1,774	15,277,355	2,474	1,413,915
1969	1,903	15,954,257	2,961	2,458,333
1970 1/	1,933	16,053,275	3,321	2,167,733
1971 1/	1,879	15,629,860	3,356	2,339,132
1972	1,847	15,267,302	3,096	1,875,681
1973	1,801	14,373,090	3,602	2,185,872
1974	1,587	13,465,620	3,666	2,879,354
1975	1,602	13,025,705	3,440	2,411,933
1976	1,386	11,700,000	2,733	2,064,320
1977	1,589	12,568,896	2,700	2,249,446
1978	1,651	12,676,469	1,981	1,947,893
1979	1,757	12,101,936	2,875	2,838,609

1/ Tonnage estimated.

Source: Hawaii State Department of Transportation, Harbors Division, Shipping Information, 1968, and unpublished data for 1969 and later years.

Table 375.-- VESSELS ARRIVING AT SPECIFIED HARBORS: 1978

(Excludes domestic fishing craft.)

Harbor	Total inbound vessels	By type of vessel					By draft	
		Self propelled vessels			Non-self propelled vessels			
		Passenger and dry cargo	Tanker	Towboat or tugboat	Dry cargo	Tanker	18 feet and less	19 feet and more
All spec. harbors ..	10,344	3,692	217	3,791	2,420	224	(NA)	(NA)
Hilo	672	144	14	265	224	25	570	102
Kawaihae	269	16	1	144	104	4	252	17
Kahului	975	153	14	392	382	34	790	185
Kaunakakai	647	20	-	348	276	3	(NA)	(NA)
Kalaupapa	7	1	-	3	3	-	7	-
Honolulu	6,017	2,684	82	1,880	1,271	100	5,215	802
Barbers Point	1,230	579	102	511	2	36	1,135	95
Nawiliwili	376	82	3	157	113	21	348	28
Port Allen	151	13	1	91	45	1	(NA)	(NA)

NA Not available.

Source: U.S. Department of the Army, Corps of Engineers, Waterborne Commerce of the United States, Calendar Year 1978, Part 4, pp. 107-108.

Table 376.-- FREIGHT AND PASSENGER TRAFFIC FOR SPECIFIED HARBORS: 1970 TO 1978

Subject and year	Hilo	Kawaihae	Kahului	Honolulu	Barbers Point	Nawiliwili
FREIGHT TRAFFIC 1/ (SHORT TONS)						
1970	1,141,163	329,425	1,083,355	8,078,111	2,561,558	500,094
1971	1,064,384	355,546	1,067,941	7,390,015	2,677,542	460,259
1972	1,108,067	303,116	1,297,829	7,960,447	3,420,445	582,887
1973	1,041,647	385,850	1,042,818	8,188,466	3,944,857	495,448
1974	928,619	291,036	982,110	7,556,891	4,360,221	380,495
1975	1,053,879	279,687	1,109,485	7,935,183	5,185,659	532,978
1976	995,544	263,562	1,276,424	7,189,538	6,593,497	460,900
1977	1,013,430	318,197	1,301,095	6,881,556	6,630,994	557,798
1978	1,272,734	502,451	1,922,112	7,750,537	6,306,580	765,877
PASSENGERS 2/						
1970	4,457	-	-	690,906	-	4,228
1971	2,148	-	-	518,603	-	1,683
1972	658	-	-	796,694	-	658
1973	-	-	-	989,100	-	-
1974	9,600	-	9,600	987,475	-	-
1975	13,613	-	11,296	1,073,125	-	13,934
1976	1,313	-	1,307	1,390,524	-	40,674
1977	8,381	-	8,390	303,291	3,504	70,063
1978	3,207	-	3,879	183,721	4,441	6,384

1/ Excludes cargo carried by Army and Navy vessels and cargo in transit.

2/ Total arrivals and departures for transpacific, interisland, and local travel. For details (Honolulu only), see the following table.

Source: U.S. Department of the Army, Corps of Engineers, Waterborne Commerce of the United States, Calendar Year 1978, Part 4, pp. 30-35.

Table 377.-- PASSENGER ARRIVALS AND DEPARTURES, BY ORIGIN AND DESTINATION, FOR HONOLULU HARBOR: 1977

Category	Total	Arrivals	Departures
All passengers	303,291	138,522	164,769
To or from other countries ..	12,581	8,955	3,626
To or from other states	10,070	5,118	4,952
To or from U.S. territories .	202	202	-
Interisland	262,708	115,037	147,671
Pearl Harbor tours and other local	17,730	9,210	8,520

Source: U.S. Department of the Army, Lower Mississippi Valley Division, Corps of Engineers, Waterborne Commerce Statistics Center, records.

Table 378.-- OVERSEAS AND INTERISLAND SHIPPING: 1967 TO 1977

[In revenue tons of 2,000 lb.]

Calendar year	Overseas cargo tons			Interisland cargo tons		
	Total	In	Out	Total	In	Out
1967 ...	7,136,017	4,334,536	2,801,481	3,536,997	1,767,764	1,769,233
1968 ...	9,185,880	6,498,986	2,686,894	3,689,409	1,844,704	1,844,705
1969 ...	9,440,891	7,185,809	2,255,082	3,941,074	1,969,987	1,971,087
1970 ...	9,610,764	7,464,651	2,146,113	4,788,130	2,394,065	2,394,065
1971 ...	9,442,634	7,097,445	2,345,189	4,190,708	2,091,490	2,099,218
1972 ...	10,024,122	7,631,789	2,392,333	5,851,128	2,800,702	3,050,426
1973 ...	11,287,536	8,203,106	3,084,430	4,679,121	2,300,634	2,378,487
1974 ...	11,156,346	8,581,226	2,575,120	3,780,896	1,904,501	1,876,395
1975 ...	11,758,995	8,644,344	3,114,651	5,067,630	2,495,317	2,572,313
1976 ...	12,222,022	9,240,594	2,981,428	5,015,918	2,475,123	2,540,795
1977 ...	12,647,133	9,545,354	3,101,779	4,542,847	2,274,346	2,268,501

Source: Hawaii State Department of Transportation, Water Transportation Facilities Division, estimates based on data in U.S. Department of the Army, Corps of Engineers, Waterborne Commerce of the United States (annual).

Table 379.-- FREIGHT TRAFFIC, BY COMMODITIES, FOR SPECIFIED HARBORS: 1978

(In short tons.)

Harbor and commodity 1/	Total	Foreign		Interstate 2/
		Imports	Exports	Receipts
Hilo	1,272,734	33,870	22,316	181,714
Sugar	220,679	-	-	7
Motor vehicles	252,797	-	-	4,373
Kawaihae	502,451	460	87,424	2,584
Kahului	1,922,112	25,527	43,150	137,895
Sugar	233,011	-	6	13
Residual fuel oil	210,600	-	-	77,633
Fabricated metal products	278,660	-	-	877
Motor vehicles	377,132	407	-	1,987
Honolulu	7,750,537	1,153,711	98,051	2,363,551
Prepared fruit juice	448,583	4,017	1,684	8,437
Molasses	256,738	-	-	-
Gasoline	1,131,780	852,100	16,255	138,354
Residual fuel oil	370,891	9,868	-	171,219
Fabricated metal products	621,468	11,537	985	31,301
Motor vehicles	1,056,611	29,419	643	81,566
Barbers Point	6,306,580	3,870,643	133,076	1,284,031
Crude petroleum	2,311,754	1,661,527	-	650,227
Gasoline	311,750	207,914	-	-
Distillate fuel oil	598,563	479,004	2,700	-
Residual fuel oil	2,259,115	855,013	127,993	632,259
Lubricating oils, greases	558,820	558,820	-	-
Nawiliwili	765,877	11,153	-	6,960
Sugar	212,175	212,175	-	-
Other harbors 3/	269,995	(NA)	(NA)	(NA)

Continued on next page.

Table 379.-- FREIGHT TRAFFIC, BY COMMODITIES, FOR SPECIFIED HARBORS: 1978 -- Con.

(In short tons.)

Harbor and commodity 1/	Interstate 2/-- con.	Interisland 2/		Local
	Shipments	Receipts	Shipments	
Hilo	287,308	622,637	124,889	-
Sugar	220,637	35	-	-
Motor vehicles	2,283	222,390	23,751	-
Kawaihae	167,724	153,978	90,281	-
Kahului	277,576	1,069,976	367,968	20
Sugar	232,609	264	119	-
Residual fuel oil	-	132,967	-	-
Fabricated metal products	59	214,125	63,599	-
Motor vehicles	287	295,993	78,458	-
Honolulu	896,900	886,986	2,341,299	10,039
Prepared fruit juice	330,001	97,870	6,574	-
Molasses	152,558	104,180	-	-
Gasoline	-	6,954	110,193	7,924
Residual fuel oil	-	30,682	159,122	-
Fabricated metal products	6,926	153,245	417,474	-
Motor vehicles	16,028	152,851	776,104	-
Barbers Point	944,204	4,370	70,256	-
Crude petroleum	-	-	-	-
Gasoline	96,561	1,290	5,985	-
Distillate fuel oil	109,376	-	7,483	-
Residual fuel oil	613,168	-	30,682	-
Lubricating oils, greases	-	-	-	-
Nawiliwili	226,400	383,971	137,393	-
Sugar	204,837	23	7,315	-
Other harbors 3/	(NA)	(NA)	(NA)	(NA)

NA Not available.

1/ Commodities under 200,000 tons are not shown separately.

2/ Interstate and interisland (or intrastate) data are combined in the coastwise totals shown in the published reports.

3/ Kaunakakai (179,223), Kalaupapa (1,438), and Port Allen (89,334).

Source: U.S. Department of the Army, Corps of Engineers, Waterborne Commerce of the United States, Calendar Year 1978, pp. 30-37, and unpublished printouts.

Table 380.-- BOATING ACCIDENTS: 1970 TO 1979

Year	Number of accidents		Number of persons		Number of vessels involved	Amount of damage ($1,000)
	Total	Fatal	Killed	Injured non-fatally		
1970	36	1	1	2	44	82.6
1971	15	2	2	-	16	64.8
1972	37	7	9	7	43	254.1
1973	27	1	1	2	30	126.1
1974	63	5	5	3	77	353.3
1975	62	4	4	13	74	228.2
1976	51	2	2	5	57	221.5
1977	57	1	1	6	63	284.0
1978	74	7	12	5	87	603.2
1979	59	3	7	9	66	429.2

Source: U.S. Department of Transportation, Coast Guard, Boating Statistics (annual).

Section 19

AGRICULTURE

This section presents statistics on agricultural land, farms, and specific crops, livestock, dairy products, and poultry. Related information appears in Section 6 (on land use), 11 and 15 (agricultural employment and earnings), and 22 (food processing).

There were 3,900 farms in Hawaii as of 1979, with a total area of 2,290,000 acres. Both figures have declined during the past decade. The value of crop sales in 1979 was $361 million, or 126 percent higher than the total for 1969. Livestock sales amounted to $78 million, or 98 percent more than the 1969 level. Combined crop and livestock sales ranged from $55 million in Kauai County to $146 million on the Big Island. Net farm income in 1978 was $107 million. Major crops in 1979 were sugar ($218 million in sales, up 107 percent over the decade), pineapple ($69 million, or 96 percent over the 1969 total), and flowers and nursery products ($21 million, or 431 percent more than in 1969). Diversified agriculture, defined as all crops other than sugar and pineapple, rose from $19 million in 1969 to $74 million in 1979, or approximately 284 percent. About 580 farms sold $21 million of flowers and nursery products in 1979, chiefly anthuriums, potted foliage, orchids, and ornamentals and trees. Important products of livestock farms as of 1979 included cattle ($28 million in sales), milk ($25 million), and eggs ($14 million). Coffee sales have fluctuated sharply during the past decade, but macadamia nuts and horticultural specialties have increased rapidly. In 1979, Hawaii produced 40 percent of the fresh market vegetables consumed locally, 29 percent of the fresh market fruits, 32 percent of the beef and veal, 23 percent of the chickens, none of the rice, and 91 percent of the eggs.

Aquaculture has been growing in importance in recent years. Freshwater prawn production was expected to exceed a quarter of a million pounds in 1979, with a value of more than $1 million. Only five years earlier the corresponding figures had been only 11,000 lb. and $38,500.

Statistics on Hawaiian agriculture exclude pakalōlō (marijuana) and other illicit plants. The police chiefs of the Big Island and Kauai have estimated the total cultivation of marijuana in their counties in 1979 at 125 and 12.8 tons, respectively, with values of $50 million and $5.1 million, but such figures are necessarily quite speculative.

Important sources for data on agriculture include the United States Census of Agriculture, generally conducted at five-year intervals, the annual report on Statistics of Hawaiian Agriculture issued by the Hawaii Agricultural Reporting Service, and data compiled by the Hawaii Agricultural Experiment Station, Hawaiian Sugar Planters' Association, and Pineapple Growers Association of Hawaii. Agricultural data for earlier years are summarized in Historical Statistics of Hawaii, Section 13. National statistics appear in Section 24 of the Statistical Abstract of the United States: 1979.

Table 381.-- AGRICULTURAL SUMMARY: 1964 TO 1978

Subject	1964	1969	1974	1978
Number of farms by size				
Total	4,864	3,896	3,020	4,312
Less than 10 acres	2,603	2,024	1,633	2,531
10 to 49 acres	1,594	1,281	872	1,209
50 to 179 acres	359	336	271	297
180 to 499 acres	168	140	127	146
500 to 999 acres	38	28	23	24
1,000 to 1,999 acres	22	17	24	32
2,000 or more acres	80	70	70	73
Farm acreage				
Total acreage (1,000)	2,354	2,058	2,119	1,981
Per farm (acres)	484	528	702	459
Total cropland (1,000)	370.9	379.8	351.6	333.3
Harvested cropland (1,000)	167.5	178.7	151.4	158.7
Irrigated land (1,000)	143.9	145.6	141.7	159.3
Other characteristics				
Average age of farm operators (years)	51.0	53.1	55.4	52.7
Tenant operators (percent of total)	41.1	38.1	36.6	34.4
Regular hired workers 1/	12,375	13,200	11,497	11,386
Average value of land and buildings:				
Per farm ($1,000)	98.9	156.8	340.6	413.3
Per acre (dollars)	205	297	485	901
Market value of agricultural products sold:				
Total ($1,000,000)	187.5	285.6	609.8	419.6
Per farm ($1,000)	38.5	73.3	201.9	97.3
Percent of farms over $2,500	46.5	55.6	69.8	67.5

1/ Working 150 days or more on all farms.
2/ 1978 data exclude sales of forest products.
Source: U.S. Bureau of the Census, 1974 Census of Agriculture, Vol. I, Part 11 (1977), pp. 1, 2, and 16, and 1978 Census of Agriculture, Preliminary Report, AC78-P-15-000.

Table 382.-- AGRICULTURAL SUMMARY, BY COUNTIES: 1978

Subject	State total	Counties			
		Hawaii	Honolulu	Kauai	Maui
Number of farms by size					
Total	4,312	2,261	1,057	369	625
Less than 10 acres	2,531	1,212	825	188	306
10 to 49 acres	1,209	742	162	114	191
50 to 179 acres	297	155	36	41	65
180 to 499 acres	146	85	16	11	34
500 to 999 acres	24	16	2	-	6
1,000 to 1,999 acres	32	13	9	5	5
2,000 or more acres	73	38	7	10	18
Farm acreage (thousands)					
Total acreage	1,981	1,147	126	286	422
Per farm	0.459	0.507	0.119	0.776	0.675
Total crop land	333.3	129.4	54.9	52.3	96.7
Harvested cropland	158.7	58.7	30.5	24.9	44.6
Irrigated land	159.3	21.9	38.4	36.8	62.2
Other characteristics					
Average age of farm operators (years)	52.7	52.8	53.1	53.1	51.3
Tenant operators (percent of total)	34.4	33.7	40.3	38.5	24.6
Regular hired workers 1/	11,386	2,954	2,761	2,085	3,586
Average value of land and buildings:					
Per farm ($1,000)	413.3	405.0	300.8	498.7	583.0
Per acre (dollars)	901	800	2,530	643	865
Market value of agricultural products sold:					
Total ($1,000)	419,616	148,294	118,877	48,278	104,167
Per farm ($1,000)	97.3	65.6	112.5	130.8	166.7
Percent of farms over $2,500	67.5	68.5	71.5	59.9	61.8

1/ Working 150 days or more on all farms.

Source: U.S. Bureau of the Census 1978 Census of Agriculture, Preliminary Report, AC78-P-15-000 through 009 (August 1980).

Table 383.-- NUMBER OF FARMS, FARM ACREAGE, AND VALUE OF CROP AND LIVESTOCK SALES: 1969 TO 1979

Year	Number of farms 1/	Farm acreage 2/ (1,000)	Value of crop and livestock sales ($1,000)				
			Crops and live-stock	Sugar (un-processed cane)	Pine-apples (fresh equiv-alent)	Other crops	Live-stock
1969	4,600	2,310	199,101	104,900	35,500	19,214	39,487
1970	4,500	2,300	213,689	110,600	39,500	21,941	41,648
1971	4,400	2,300	221,692	115,800	40,300	22,539	43,053
1972	4,300	2,300	232,497	117,300	43,900	25,055	46,242
1973	4,100	2,300	266,161	141,900	39,600	29,392	55,269
1974	4,100	2,300	575,473	442,300	40,300	34,964	57,909
1975	4,100	2,300	377,552	237,000	41,600	40,688	58,264
1976	4,100	2,300	327,830	164,700	53,000	47,815	62,315
1977	4,100	2,300	325,372	144,200	62,500	53,664	65,008
1978	4,100	2,290	380,334	182,700	63,000	62,091	72,543
1979	3,900	2,290	439,156	217,600	69,500	73,809	78,247

1/ Farm definition revised in 1979.

2/ Includes land not in crop and pasture, such as farm house lots, roads, woodlots, etc.

Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture (annual).

Table 384.-- NUMBER OF FARMS, FARM ACREAGE, AND VALUE OF CROP AND LIVESTOCK SALES, BY GEOGRAPHIC AREAS: 1969 TO 1979

Geographic area and year	Number of farms 1/	Farm acreage 2/ (1,000)	Value of crop and livestock sales ($1,000)				
			Crops and live-stock	Sugar (unprocessed cane)	Pine-apples (fresh equiv.)	Other crops	Live-stock
State total:							
1969	4,600	2,310	199,089	104,900	35,500	19,202	39,487
1978	4,100	2,290	380,334	182,700	63,000	62,091	72,543
1979	3,900	2,290	439,156	217,600	69,500	73,809	78,247
Hawaii Co.:							
1969	2,550	1,350	59,778	38,900	-	10,483	10,395
1978	2,400	1,337	126,029	68,600	-	34,697	22,732
1979	2,300	1,337	145,593	79,500	-	42,615	23,478
Maui Co.:							
1969	690	526	54,452	23,900	22,500	2,741	5,311
1978	500	524	90,176	43,600	28,300	10,353	7,923
1979	500	524	105,885	52,200	32,900	9,783	11,002
Oahu:							
1969	930	152	57,231	19,300	11,700	4,837	21,394
1978	850	149	118,625	30,900	34,700	13,908	39,117
1979	800	149	132,357	38,200	36,600	16,310	41,247
Kauai Co.:							
1969	430	282	27,628	22,800	1,300	1,141	2,387
1978	350	280	45,504	39,600	-	3,133	2,771
1979	300	280	55,321	47,700	-	5,101	2,520

1/ Farm definition revised in 1979.

2/ Includes land not in crop and pasture such as farm house lots, roads, wood lots, etc.

Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture (annual).

Table 385.-- ACREAGE IN CROP, NUMBER OF CROP FARMS, VOLUME OF CROP MARKETINGS, AND VALUE OF CROP SALES: 1969 TO 1979

Subject	1969	1978	1979
Acreage in crop (1,000 acres):			
Sugarcane	242.2	220.7	218.8
Pineapples (land used for pineapple)	62.4	43.0	44.0
Vegetables and melons (harvested acreage)	2.9	4.0	4.3
Fruits, excluding pineapples	3.5	5.2	5.3
Coffee	4.3	2.3	2.1
Macadamia nuts	8.7	10.2	11.4
Miscellaneous crops	2.2	6.0	4.9
Number of crop farms:			
Sugar	753	480	480
Pineapples	59	16	15
Vegetables and melons	501	542	535
Fruits (excluding pineapples)	444	641	683
Coffee	770	750	700
Macadamia nuts	262	464	466
Taro	138	132	121
Flowers and nursery products	500	600	580
Volume of crop marketings:			
Sugar, unprocessed cane (1,000 tons)	10,839	9,263	9,632
Pineapples, fresh equivalent (1,000 tons)	915	675	681
Vegetables and melons (1,000 lb.)	50,420	71,990	70,210
Fruits, excluding pineapples (1,000 lb.)	32,076	78,220	55,780
Coffee, parchment (1,000 lb.)	4,130	1,680	1,800
Macadamia nuts, in shell (1,000 lb.)	10,057	20,980	25,000
Taro (1,000 lb.)	8,605	7,680	6,640
Value of crop sales ($1,000):			
Sugar (unprocessed cane)	104,900	182,700	217,600
Pineapples (fresh equivalent)	35,500	63,000	69,500
Vegetables and melons	6,394	16,535	18,337
Fruits (excluding pineapples)	3,477	10,321	11,788
Coffee (parchment)	1,466	2,117	2,610
Macadamia nuts (in shell)	2,474	11,287	15,500
Taro	671	1,029	1,089
Field crops (not estimated separately)	650	3,224	3,557
Flowers and nursery products	3,910	17,458	20,778
Forest products	160	120	150

Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture (annual).

Table 386.-- ACREAGE IN CROP, NUMBER OF CROP FARMS, VOLUME OF CROP MARKETINGS, AND VALUE OF CROP SALES, BY GEOGRAPHIC AREAS: 1979

Subject	Hawaii County	Maui County	Oahu	Kauai County
Acreage in crop (1,000 acres):				
Sugarcane	91.7	47.7	33.6	45.8
Pineapples (land used for pineapple)	-	32.0	12.0	-
Vegetables and melons (harvested acreage)	1.6	1.2	1.4	0.1
Fruits, excluding pineapples	3.6	0.3	0.8	0.6
Coffee	2.1	-	-	-
Macadamia nuts	11.1	(D)	(D)	(D)
Miscellaneous crops	1.1	1.8	1.3	0.7
Number of crop farms:				
Sugar	469	3	3	5
Pineapples	-	13	2	-
Vegetables and melons	198	73	217	47
Fruits (excluding pineapples)	407	44	158	74
Coffee	700	-	-	-
Macadamia nuts	460	2	1	3
Taro	41	29	2	49
Flowers and nursery products	290	95	170	25
Volume of crop marketings:				
Sugar, unprocessed cane (1,000 tons)	4,036	2,110	1,494	1,992
Pineapples, fresh equivalent (1,000 tons)	-	491	190	-
Vegetables and melons (1,000 lb.)	27,910	24,220	16,000	2,090
Fruits, excluding pineapples (1,000 lb.)	37,380	5,370	6,180	6,860
Coffee, parchment (1,000 lb.)	1,800	-	-	-
Macadamia nuts, in shell (1,000 lb.)	24,930	(D)	(D)	(D)
Taro (1,000 lb.)	1,220	(D)	(D)	4,330
Value of crop sales ($1,000):				
Sugar (unprocessed cane)	79,500	52,200	38,200	47,700
Pineapples (fresh equivalent)	-	32,900	36,600	-
Vegetables and melons	6,624	4,895	6,096	722
Fruits (excluding pineapples)	7,671	238	1,277	2,602
Coffee (parchment)	2,610	-	-	-
Macadamia nuts (in shell)	15,456	(D)	(D)	(D)
Taro	239	(D)	(D)	(D)
Field crops (not estimated separately)	100	1,536	986	935
Flowers and nursery products	9,780	2,899	7,946	153
Forest products	135	6	5	4

D Withheld to avoid disclosure of individual operations.

Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture 1979.

Table 387.-- VEGETABLES, FRUITS, COFFEE, NUTS, AND TARO: 1979

Crop 1/	Acreage harvested 2/	Yield per acre (1,000 lb.)	Production (1,000 lb.)	Farm price (cents per lb.)	Value of sales ($1,000)
Vegetables:					
Beans, Snap	210	6.5	1,400	66.9	937
Cabbage, Chinese	335	19.7	6,600	15.2	1,003
Cabbage, Head	450	30.0	13,500	11.3	1,526
Cucumbers	270	17.5	4,700	26.1	1,227
Eggplant	60	26.2	1,570	42.0	659
Ginger root	75	24.8	1,860	61.2	1,138
Lettuce (head, semi-head)	650	14.5	9,400	21.1	1,983
Onions, Dry	70	17.0	1,190	45.0	536
Onions, Green	120	9.5	1,135	71.9	816
Tomatoes	270	23.0	6,200	35.0	2,170
Watercress	32	...	1,670	41.1	686
Fruits:					
Bananas	630	7.5	4,730	20.5	970
Papayas	2,210	18.6	41,015	23.2	9,510
Macadamia nuts (1979-1980)	9,600	2.8	26,660	62.9	16,769
Coffee (1979-1980)	1,800	1.2	2,190	143.0	3,132
Taro	405	...	6,640	16.4	1,089

1/ Data shown for crops with sales in excess of $500,000.

2/ Acreage bearing for macadamia nuts; acreage in crop for watercress and taro.

Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture, 1979 (June 1980); Macadamia Nuts, Annual Summary (August 6, 1980); Hawaii Coffee, Annual Summary (September 18, 1980).

Table 388.-- LIVESTOCK INVENTORY: 1969, 1978, AND 1979

(In thousands)

Type of livestock	1969	1978	1979
All cattle and calves 1/	246	215	213
Milk cows 1/	13	13	13
Hogs and pigs 2/	57	54	53
Chickens (excluding broilers) 2/ ..	1,271	1,333	1,306
Bee colonies	5	7	7

1/ As of following January 1.
2/ As of December 1.
Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture (annual).

Table 389.-- LIVESTOCK INVENTORY, BY GEOGRAPHIC AREAS: 1979

(In thousands)

Type of livestock	Hawaii County	Maui County	Oahu	Kauai County
All cattle and calves 1/	121.0	42.5	31.4	18.1
Milk cows 1/	1.5	1.2	9.9	0.5
Hogs and pigs 2/	5.7	9.9	34.2	3.2
Chickens (excluding broilers) 2/ .	(D)	(D)	1,128	(D)

D Withheld to avoid disclosure of individual operations.
1/ As of January 1, 1980.
2/ As of December 1, 1979.
Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture 1979, pp. 66, 75, and 80.

Table 390.-- NUMBER OF LIVESTOCK OPERATIONS, VOLUME OF LIVESTOCK MARKETINGS, AND VALUE OF LIVESTOCK SALES: 1969 TO 1979

Subject	1969	1978	1979
Number of livestock operations, Dec. 31:			
Cattle 1/	1,200	800	800
Hogs	650	650	650
Milk	130	70	70
Eggs	240	60	60
Broilers	36	10	10
Honey	25	28	28
Volume of livestock marketings:			
Beef (dressed weight; 1,000 lb.) 2/	31,364	33,544	29,091
Pork (dressed weight; 1,000 lb.)	8,440	9,851	7,785
Milk (million lb.)	130.5	147.3	147.3
Eggs (million)	200	218	229
Broilers and chickens (1,000 lb. 3/)	5,462	6,786	7,136
Honey (1,000 lb.)	375	812	910
Value of livestock sales ($1,000):			
Cattle 4/	12,854	24,370	28,139
Hogs 4/	4,029	7,947	7,027
Milk	12,624	23,715	24,894
Eggs	7,833	12,699	14,007
Broilers and chickens	2,042	3,335	3,655
Other	105	477	525

1/ Includes beef, dairy, and dairy replacement farms.

2/ Includes slaughter cattle, but excludes calves, shipped out-of-State.

3/ Ready-to-cook weight.

4/ Excludes interfarm sales; includes out-of-State sales of slaughter cattle and feeder calves.

Source: Hawaii Agricultural Reporting System, Statistics of Hawaiian Agriculture (annual).

Table 391.-- NUMBER OF LIVESTOCK OPERATIONS, VOLUME OF LIVESTOCK MARKETINGS, AND VALUE OF LIVESTOCK SALES, BY GEOGRAPHIC AREAS: 1979

Subject	Hawaii County	Maui County	Oahu	Kauai County
Number of livestock operations, Dec. 31:				
Cattle 1/	355	205	85	155
Hogs	80	100	360	110
Milk	24	17	24	5
Eggs	23	5	26	6
Broilers	(D)	(D)	(D)	(D)
Honey	3	5	8	12
Volume of livestock marketings:				
Beef (dressed weight; 1,000 lb.) 2/	17,218	7,517	1,887	2,469
Pork (dressed weight; 1,000 lb.)	834	1,658	4,915	378
Milk (million lb.)	(D)	(D)	117.5	(D)
Eggs (million)	(D)	(D)	197.6	(D)
Broilers and chickens (1,000 lb. 3/)	(D)	(D)	6,739	(D)
Honey (1,000 lb.)	(D)	(D)	(D)	(D)
Value of livestock sales ($1,000):				
Cattle 4/	17,212	7,114	1,713	2,100
Hogs 4/	784	1,625	4,227	391
Milk	(D)	(D)	19,975	(D)
Eggs	(D)	(D)	11,856	(D)
Broilers and chickens	(D)	(D)	3,444	(D)
Other	352	112	32	29

D Withheld to avoid disclosure of individual operations.

1/ Includes beef, dairy, and dairy replacement farms.

2/ Includes slaughter cattle, but excludes calves, shipped out-of-State.

3/ Ready-to-cook weight.

4/ Excludes interfarm sales; includes out-of-State sales of slaughter cattle and feeder calves.

Source: Hawaii Agricultural Reporting System, Statistics of Hawaiian Agriculture 1979.

Table 392.-- FRESHWATER PRAWN FARMS, BY TYPE OF OPERATION AND ISLAND: DECEMBER 31, 1979

Operation and island	Number
All prawn farms	19
Type of operation:	
Full-time	7
Part-time	12
Island:	
Molokai	1
Oahu	17
Kauai	1

Source follows next table.

Table 393.-- FRESHWATER PRAWN ACREAGE, PRODUCTION, AND VALUE: 1970 TO 1979

Year	Acres of prawn ponds 1/	Production (1,000 lb.)	Value ($1,000)	Wholesale price per pound (dollars)
1970 2/	1.5	...	...	...
1971 2/	1.5	...	...	...
1972	1.5	4.3	15.0	3.50
1973	1.5	4.4	15.3	3.50
1974	5	11.0	38.5	3.50
1975	26	40.3	140.9	3.50
1976	26	43.3	151.6	3.50
1977	33	54.9	206.0	3.75
1978	107	110.2	420.0	3.82
1979 3/	275	205.0	815.9	3.98

1/ As of December 31.
2/ Data not available for production and value.
3/ Revised August 8, 1980

Source: Hawaii State Department of Planning and Economic Development, Aquaculture Development Program, The Hawaiian Prawn Industry, A Profile (December 1979), as revised August 8, 1980.

Table 394.-- FLOWERS AND NURSERY PRODUCTS, 1977 TO 1979, AND BY ISLAND, 1979

Island and year	Number of farms	Area					Whole-sale value ($1,000)
		Total (acres)	Green-house (1,000 sq. ft.)	Artificial shade structure (1,000 sq. ft.)	Natural shade area (acres)	Open field (acres)	
State total:							
1977	550	1,210	948	11,185	197	734	14,003
1978	600	1,203	1,421	13,874	140	712	17,458
1979	580	1,300	1,625	16,950	106	770	20,778
Islands, 1979:							
Hawaii ...	290	756	750	13,450	100	330	9,780
Kauai	25	26	70	165	1	20	153
Maui	95	207	200	450	2	190	2,899
Oahu	170	313	605	2,885	3	230	7,946

Source: Hawaii Agricultural Reporting Service, "Flower and Nursery Industry Tops $20 Million in 1979," Hawaii Flowers & Nursery Products, Annual Summary (May 21, 1980).

Table 395.-- FLOWERS AND NURSERY PRODUCTS, BY KIND OF FLOWER: 1979

Kind of flower	Number of farms	Number of flowers sold		Wholesale value ($1,000)
		Unit	Number	
Cut flowers :				
Anthuriums	180	1,000 dozens	2,111	5,568
Birds of paradise	16	1,000 dozens	13	33
Carnations	14	1,000 dozens	40	74
Chrysanthemums, pompon	12	1,000 bunches	325	282
Chrysanthemums, other	5	1,000 dozens	10	43
Gingers	27	1,000 dozens	(NA)	113
Proteas, sunburst cordifolium	10	1,000 stems	819	195
Proteas, other	7	1,000 stems	186	86
Roses	5	1,000 dozens	246	726
Others	36	1,000 dozens	(NA)	385
Cut orchids:				
Cattleyas	16	1,000 flowers	51	30
Cymbidiums	18	1,000 flowers	628	245
Dendrobiums, sprays	26	1,000 dozens	44	192
Others	15	1,000 flowers	(NA)	45
Lei flowers:				
Carnations	21	Million flowers	36.8	1,140
Vanda Miss Joaquim	26	Million flowers	31.6	441
Plumerias	17	Million flowers	38.6	418
Tuberoses	3	Million flowers	21.1	401
Dendrobiums	9	Million flowers	2.8	73
Pikake	5	1,000 strands	69	81
Cut foliage:				
Ti leaves	35	Million leaves	11.5	285
Other greens	20	Million leaves	(NA)	149
Potted plants:				
Chrysanthemums	9	1,000 pots	189	523
Orchids	76	1,000 pots	460	1,508
Poinsettias	24	1,000 pots	120	323
Potted foliage	99	1,000 pots	(NA)	4,052
Other potted plants	73	1,000 pots	(NA)	914
Ornamentals and trees	73	1,000 pots	(NA)	1,027
Unfinished flower and foliage stock	54	1,000 pots	(NA)	919
Other nursery products	14	1,000 pots	(NA)	507

NA Not available.

Source: Hawaii Agricultural Reporting Service, "Flower and Nursery Industry Tops $20 Million in 1979," Hawaii Flowers & Nursery Products, Annual Summary (May 21, 1980).

Table 396.-- MARKET SUPPLY OF SPECIFIED FOODS: 1969 TO 1979

Commodity and year	Total market supply 1/			Per capita market supply 2/	Percent from Hawaii
	Total	Inshipment	Hawaii		
Fresh market fruits					
1969	46,727	27,532	19,195	60.0	41.1
1978	75,044	53,805	21,239	75.8	28.3
1979	75,184	58,295	16,889	74.2	29.0
Fresh market melons:					
1969	8,053	5,978	2,075	10.3	25.8
1978	12,376	10,506	1,870	12.5	15.1
1979	14,944	13,814	1,130	14.8	7.6
Fresh market vegetables:					
1969	105,659	61,581	44,078	135.7	41.7
1978	165,449	97,119	68,330	167.0	41.3
1979	174,235	105,155	69,080	172.0	39.6
Beef and veal: 3/					
1969	67,458	36,094	4/ 31,364	86.6	46.5
1978	91,931	58,387	4/ 33,544	92.8	36.5
1979	90,525	61,434	4/ 29,091	89.4	32.1
Pork: 3/					
1969	25,220	16,780	8,440	32.4	33.5
1978	32,427	22,576	9,851	32.7	30.4
1979	32,642	24,856	7,786	32.2	23.9
Chickens: 5/					
1969	22,600	17,138	5,462	29.0	24.2
1978	28,483	21,697	6,786	28.8	23.8
1979	31,054	23,918	7,136	30.7	23.0
Eggs, shell:					
1969	17,155	455	16,700	22.0	97.3
1978	20,114	1,914	18,200	20.3	90.5
1979	21,001	1,901	19,100	20.7	90.9

1/ Eggs in 1,000 dozens; other foods in 1,000 pounds.

2/ Eggs in dozens; other foods in pounds. Based on de facto population.

3/ Carcass weight equivalent.

4/ Excludes slaughter cattle and calves shipped out-of-State.

5/ Ready-to-cook weight.

Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture (annual).

Table 397.-- GROSS AND NET INCOME FROM FARMING AND FARM PRODUCTION EXPENSE: 1976 TO 1978

(In millions of dollars)

Subject	1976	1977	1978
Gross farm income, total	356.7	380.6	419.4
Cash receipts from farm marketings	329.2	325.2	380.4
Government payments 1/	0.4	24.7	4.9
Non-money income	12.8	14.3	16.3
Other farm income	14.2	16.4	17.8
Farm production expenses, total	273.7	287.6	307.1
Current farm operating expenses	235.4	244.9	258.2
Hired labor	112.0	118.3	124.2
Other current expenses 2/	123.4	126.6	134.1
Other expenses 3/	38.3	42.7	48.8
Net change in farm inventories	-1.1	-1.2	-5.7
Net income after inventory adjustment	81.9	91.8	106.6

1/ Excludes amounts paid but allocated to the raw sugar processing and refining segment of the sugar industry ($24.0 million in 1977 and $4.0 million in 1978).

2/ Feed, livestock, seed, fertilizer and lime, repairs and operation of capital items, and miscellaneous current operating expenses.

3/ Depreciation and other consumption of farm labor, taxes on farm property, interest on farm mortgage debt, and net rent to nonoperator landlords.

Source: U.S. Department of Agriculture estimates cited in the Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture 1979, p. 12.

Table 398.-- AGRICULTURAL PRODUCTIVITY RATING AND ESTIMATED ANNUAL INLAND SOIL LOSS

Subject	Hawaii	Maui	Lanai	Molokai	Oahu	Kauai
Agricultural productivity rating (1,000 acres)						
Total	2,584.3	466.4	89.3	167.1	388.9	354.1
Very good	-	32.7	-	0.7	24.6	10.0
Good	46.2	20.1	-	-	32.3	30.3
Moderate	214.3	38.5	4.8	4.5	22.0	28.5
Poor	573.1	99.8	20.2	40.4	19.7	30.5
Very poor	1,738.2	268.7	63.8	120.3	228.2	249.3
Not rated 1/	12.5	6.7	0.4	1.2	62.1	5.5
Inland soil loss (1,000 tons per year)						
Total erosion	2,287	2,357	1,242	2,373	1,355	2,493
Sediment yield 2/	502	310	187	357	330	429

1/ Quarry, water, or urban.

2/ Total erosion minus amount deposited enroute to the point of measurement.

Source: Arthur Y. Ching and Tamotsu Sahara, Land Use and Productivity Rating, State of Hawaii, 1968, L.S.B. Circular No. 15 (University of Hawaii, Land Study Bureau, July 1969), pp. 20-21; State of Hawaii Water Resources Regional Study, Hawaii Water Resources Plan (January 1979), p. 94.

FORESTS, FISHERIES, AND MINING

This section presents data on forests and forest products, commercial fishing, and mining and mineral products. Other statistics on forest products appear in Section 19.

The most recent available statistics show 1.2 million acres of forest and water reserve and 948,000 acres of commercial forest in the State, most of it on the Big Island. More than 49,000 acres had been planted in eucalyptus and other species of trees by mid-1979. Forest products harvested in 1977 had a value of $3.5 million, including $2.3 million from logs for fiber. More than 370 forest and brushland fires burned 2,017 acres in 1979. According to a 1974 compilation, the tallest tree in the State is a 203-foot eucalyptus saligna.

The commercial fish catch in calendar year 1978 amounted to 13.3 million pounds and had a value of $12.2 million. Aku (Skipjack) accounted for 36 percent of the total value. Other important species are ahi, ahipalala, akule, opelu and opakapaka. Commercial fishermen numbered 2,409; they operated 1,377 fishing vessels, serving 35 fishery wholesaling and processing establishments.

The value of mineral production reached $55 million in 1979, most of it in cement ($32 million) and stone ($20 million). The 1979 total, an all-time high, was double the level of the early 1970's.

Important sources of data on these subjects are the United States Census of Agriculture, United States Census of Mineral Industries, and reports and records of the U.S. Bureau of Mines, National Marine Fisheries Service, and Hawaii State Department of Land and Natural Resources, Fish and Game Division and Forestry Division. Historical Statistics of Hawaii, Section 14, summarizes the data for earlier periods. Comparable Mainland statistics are reported in the Statistical Abstract of the United States: 1979, Sections 25, 26 and 27.

Table 399.-- FOREST ACREAGE AND FIRES, BY ISLANDS: 1970-1979

Island	Forest and water reserve, 1979 1/ (acres)	Forest land, 1970 (acres)	
		Total 4/	Commercial 5/
State total	1,186,462	1,986,400	947,800
Hawaii	697,361	1,152,500	569,400
Maui	155,247	239,800	67,500
Kahoolawe	-	15,800	-
Lanai	6,150	43,900	4,500
Molokai	46,445	78,100	34,000
Oahu	119,319	205,300	126,500
Kauai	161,970	219,900	145,900
Niihau	-	31,100	-
Northwestern Hawaiian Isl.	-	-	-

Island	Planted forest 1979 2/ (acres)		Forest and brushland fires, 1979 3/	
	Latest year	Cumulative	Number	Acres burned
State total	169	49,497	378	2,017
Hawaii	98	22,891	178	831
Maui	-	10,677	93	956
Kahoolawe	-	-		
Lanai	-	512		
Molokai	11	2,865		
Oahu	50	7,274	87	196
Kauai	10	5,278	20	34
Niihau	-	-		
Northwestern Hawaiian Isl.	-	-	-	-

1/ Forest and water reserve within conservation district, as of June 30.

2/ Annual and cumulative totals to June 30.

3/ Calendar year.

4/ Includes commercial, unproductive, and productive-reserved acreage.

5/ Includes federal military, state, miscellaneous corporate, and miscellaneous individual forest land.

Source: Hawaii State Department of Land and Natural Resources, Division of Forestry and Wildlife, records.

Table 400.-- FOREST PRODUCTS HARVESTED: 1977

Forest product	Output		Unit price (dollars)	Total value (dollars)
	Unit	Amount		
All products	...	...	...	3,465,233
Logs for lumber	MBF 1/	2,750	209	574,833
Logs for craftwood	Cords 2/	299	224	51,330
Logs for fiber	BDT 3/	55,502	41	2,310,500
Tree fern	Cubic feet	95,000	1.42	135,000
Fuelwood from trees	Cords 2/	4,191	47	194,563
Fuelwood for charcoal	Cords 2/	800	34	26,820
Fuel from mill residue	Tons	5,000	10.50	52,500
Round posts	Posts	32,700	3.14	102,604
Split posts	Posts	3,525	2.93	10,321
Driftwood	Cords 2/	2	300	600
Pallets	Number	20	20	400
Bamboo	Lineal feet	18,844	0.04	742
Kukui nuts	Tons	13.86	362	5,020

1/ Thousand board feet.

2/ One cord equals 128 cubic feet.

3/ Bone dry ton, equal to 2,000 lbs. of wood at 0% moisture content.

Source: Hawaii State Department of Land and Natural Resources, Division of Forestry, Hawaiian Forest Products 1977, table II.

Table 401.-- FISHERY OPERATING UNITS AND LANDINGS: 1970 TO 1978

Year	Fishermen 1/	Vessels and boats 2/		Fishery establishments 3/	Landings 4/	
		Motor vessels	Boats		Quantity (1,000 lb.)	Value ($1,000)
1970.....	1,436	80	686	37	11,051	3,900
1971	1,533	89	812	44	16,873	5,238
1972	1,732	101	839	40	14,443	5,743
1973	2,091	104	1,097	41	14,035	6,115
1974 5/ .	1,992	97	1,066	42	10,990	6,028
1975	2,197	109	1,278	42	9,209	6,313
1976	2,367	101	1,336	44	14,761	8,879
1977 6/..	2,574	189	(NA)	37	13,288	10,180
1978 6/..	2,409	277	1,100	35	12,787	12,100

NA Not available.

1/ Persons licensed as commercial fishermen by the Hawaii State Department of Land and Natural Resources, Fish and Game Division. Data refer to June 30 of the following year.

2/ A vessel is defined as a craft with a capacity of 5 net tons or more; a boat, as a craft with a capacity of less than 5 net tons. Data on vessels and boats refer to June 30 of the following year.

3/ Fishery wholesaling and processing establishments, as of June 30 of the year indicated.

4/ Data may differ from corresponding totals reported by the State Fish and Game Division, which, unlike the NMFS series shown here, include unsold fish.

5/ Methods of collecting data on operating units were changed in 1974.

6/ Data for vessels and boats are preliminary. Data for fishery establishments may reflect lack of current data on small operations, such as processors who make poki, lomilomi salmon, etc.

Source: U.S. Department of Commerce, National Marine Fisheries Service, Fishery Statistics of the United States (annual, 1970-1975), and records.

Table 402.-- COMMERCIAL FISHING: 1968 TO 1979

(Years ended June 30.)

Year	Number of fishermen 1/	Commercial fish catch 2/		
		Pounds caught	Pounds sold 2/	Value (dollars)
1968	760	13,024,531	12,918,754	3,453,317.28
1969	1,028	8,687,172	8,576,737	2,917,377.91
1970	1,264	11,302,352	11,069,788	3,902,107.71
1971	1,373	17,175,766	16,886,931	5,241,752.52
1972	1,544	14,768,565	14,461,173	5,747,201.55
1973	1,677	14,400,131	14,052,994	6,115,899.73
1974	2,085	11,351,118	10,987,793	6,020,664.47
1975	1,991	9,745,759	9,220,069	6,308,191.44
1976	2,283	15,292,052	14,771,638	8,876,942.24
1977	2,367	13,797,455	13,300,174	10,178,186.47
1978	2,574	13,289,436	12,798,012	12,118,648.76
1979	2,497	(NA)	(NA)	(NA)

NA Not available.

1/ Number licensed during the year.

2/ Includes both sea and pond catch. Revised from previously published totals.

Source: Hawaii State Department of Land and Natural Resources, Commercial Fish Landings for Fiscal Year (annual), as revised and records.

Table 403.-- COMMERCIAL FISH CATCH, BY SPECIES: 1978

(Calendar year data.)

Species 1/	Pounds caught	Pounds sold	Value (dollars)
Total catch	13,304,300	12,811,441	12,247,291
Sea catch, all species 2/	13,281,007	12,788,148	12,214,553
Aku (Skipjack)	6,794,086	6,744,386	4,358,429
Ahi (Yellowfin)	2,122,225	2,010,648	2,471,847
Ahipalala	694,406	693,679	493,312
Pacific Blue Marlin	537,318	428,789	206,095
Ahi (Bigeye)	460,371	459,322	1,273,515
Akule	367,324	315,274	321,105
Opelu	298,603	292,687	331,181
Ono	194,978	167,351	225,262
Opakapaka	176,635	171,066	343,623
Striped Marlin	147,021	136,166	174,653
Mahimahi	130,762	110,118	217,453
Ulua	121,530	114,515	138,223
Uku	85,808	82,237	139,008
Hapuupuu	74,494	70,454	100,485
Onaga	62,377	60,530	165,495
Pond catch, total	23,293	23,293	32,738

1/ Shown separately for all species over 100,000 lb. or $100,000.

2/ Including species not shown separately.

Source follows next table.

Table 404.-- COMMERCIAL FISH LANDINGS, BY ISLANDS: 1978

(Calendar year data.)

Island	Pounds caught	Value (dollars)
State total	13,304,300	12,247,291
Hawaii	2,620,889	2,746,836
Maui	687,698	483,980
Lanai	27,534	13,959
Molokai	26,705	25,069
Oahu	9,502,176	8,622,919
Kauai	439,298	354,528

Source: Hawaii State Department of Land and Natural Resources, Division of Fish and Game, Commercial Fish Landings for Calendar Year - 1978 (August 29, 1979).

Table 405.-- MINERAL OPERATIONS: 1972 AND 1977

(Excluding operations in manufactures.)

Subject	1972	1977
Establishments	15	7
With 20 or more employees	5	2
All employees (1,000)	0.3	0.1
Payroll (millions of dollars)	2.4	1.9
Production, development, and exploration workers (1,000)	0.2	0.1
Man-hours (million)	0.4	0.2
Wages (millions of dollars)	1.8	1.5
Value added in mining (millions of dollars)	9.0	8.1
Cost of supplies used, purchased machinery installed, etc. (millions of dollars)	4.1	2.9
Value of shipments and receipts (millions of dollars)	11.0	9.7
Capital expenditures (millions of dollars)	2.0	1.3

Source: U.S. Bureau of the Census, U.S. Census of Mineral Industries, 1972, MIC72(2)-9, table 1, and U.S. Census of Mineral Industries, 1977, MIC77-S(A).

Table 406.-- MINERAL PRODUCTION: 1960 TO 1979

(Production as measured by mine shipments, sales, or marketable production, including consumption by producers.)

Year	Quantity (1,000 short tons)		Value ($1,000)			
	Cement	Stone	Total	Cement	Stone	Other minerals 1/
1960	21	3,535	9,254	571	6,443	2,240
1961	202	4,429	14,588	5,574	7,656	1,358
1962	212	4,071	14,844	6,055	6,883	1,906
1963	279	3,844	15,307	7,125	6,480	1,702
1964	323	5,282	19,605	8,877	8,765	1,963
1965	294	5,172	20,835	8,297	9,353	3,185
1966	329	5,079	21,253	9,046	9,482	2,725
1967	262	4,100	16,936	7,360	7,207	2,369
1968	346	5,211	23,225	9,254	11,273	2,698
1969	390	6,534	29,539	10,544	16,059	2,936
1970	406	6,331	28,965	10,334	15,538	3,093
1971	386	6,056	28,107	10,627	14,357	3,123
1972	415	5,005	28,074	11,116	13,494	3,464
1973	469	7,180	35,147	13,750	18,466	2,931
1974	502	7,638	42,042	17,111	21,370	3,561
1975	469	7,569	49,710	20,704	25,319	3,687
1976	339	6,092	42,252	18,410	21,193	2,649
1977	330	5,759	39,980	16,922	19,880	3,178
1978	452	6,027	52,743	26,454	23,840	2,449
1979 2/ ..	479	5,085	55,355	32,284	19,942	3,129

1/ Chiefly sand and gravel; pumice, pumicite, and volcanic cinder; and lime.

2/ Preliminary.

Source: U.S. Bureau of Mines, Minerals Yearbook (annual), "The Mineral Industry in Hawaii," Mineral Industry Surveys (annual preliminary and advance summary reports), and Minerals in the Economy of Hawaii (annual, 1978 and 1979).

Section 21

CONSTRUCTION AND HOUSING

This section presents statistics on construction activity and costs, the size and composition of the housing inventory, occupancy of housing, sales, and residential financing.

There were 26,515 building permits issued in 1979, with an estimated value of $985 million. The total included $589 million for private residential construction and $290 million for private nonresidential structures. The value of government construction contracts awarded was $389 million. Construction put in place, as indicated by the contracting tax base, totaled $625 million in 1969 and $1.33 billion in 1979. The value of land transfers in fiscal 1980 was $4.5 billion. Mortgage loans outstanding at the end of 1978 amounted to $5.3 billion. The May 1980 construction cost index for Honolulu (1967=100) was 275.6 for single-family residences and 285.5 for high-rise buildings.

The number of housing units in the State increased from 217,000 in 1970 to 334,000 in 1980. Owner occupied units numbered 89,000 in 1970 and 137,000 in 1980; the latter total included 100,000 on land owned in fee simple and 37,000 on leased land. Condominium units, first authorized in 1961, numbered 70,000 at the end of 1979. Military and public housing accounted for 26,000 units as of 1980. Housing was in short supply throughout most of the past decade: on Oahu, the vacancy rate in March 1980, according to the Federal Home Loan Bank, was only 1.3 percent. The average selling price of single family homes on Oahu during the year ended February 29, 1980, based on Multiple Listing Service data, was $152,000. The median gross monthly rent for Oahu rose from $140 in 1970 to $234 in 1976, and the median value of owner occupied units in the latter year was well above $75,000.

The principal sources for these data are the 1970 U.S. Census of Housing, the 1975 OEO Census Update Survey, the 1976 Honolulu Housing Survey, postal vacancy surveys issued by the Federal Home Loan Bank, various series compiled by State and County agencies (primarily the Hawaii Housing Authority, Hawaii State Department of Planning and Economic Development, Department of Regulatory Agencies, Department of Taxation, and Bureau of Conveyances, Honolulu Department of Housing and Community Development, and the four County building departments), the construction cost indexes prepared by the First Hawaiian Bank, and the Honolulu Board of Realtors reports on Multiple Listing Service activity. Many of these series are summarized in reports published by the Honolulu Department of Housing and Community Development, the Bank of Hawaii (particularly Construction in Hawaii, issued annually), and the First Hawaiian Bank. Additional information will be provided by the 1980 Census of Housing when detailed reports are released in 1981 and 1982. Persons interested in figures for earlier periods should consult Historical Statistics of Hawaii, Section 15. Mainland statistics appear in Section 28 of Statistical Abstract of the United States: 1979.

Table 407.-- NUMBER AND VALUE OF BUILDING PERMITS, BY COUNTIES: 1969 TO 1979

Year	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
NUMBER ISSUED					
1969	20,944	15,426	3,050	460	2,008
1970	23,162	16,792	3,402	514	2,454
1971	24,562	17,239	3,876	556	2,891
1972	25,342	17,706	3,982	862	2,792
1973	30,581	22,767	4,260	1,132	2,422
1974	26,027	19,169	3,635	1,066	2,157
1975	23,287	16,514	3,506	1,255	2,012
1976	23,453	15,937	3,535	1,195	2,786
1977	23,406	15,793	3,536	1,173	2,904
1978	25,807	17,758	3,938	1,470	2,641
1979	26,515	18,297	4,062	1,540	2,616
ESTIMATED VALUE ($1,000)					
1969	524,667	412,594	60,757	18,013	33,303
1970	506,649	386,687	61,362	15,777	42,823
1971	416,695	298,630	61,237	15,768	41,060
1972	508,261	364,835	69,016	25,741	48,669
1973	649,121	480,639	56,376	31,578	80,528
1974	831,897	594,896	85,350	36,745	114,906
1975	744,494	495,871	69,691	53,099	125,833
1976	581,226	411,497	58,137	29,921	81,671
1977	534,278	356,591	62,088	32,060	83,539
1978	756,757	421,692	81,965	59,858	193,242
1979	984,559	566,991	144,768	118,453	154,347

Source: City and County of Honolulu Department of Buildings, Summary of Building Permits (annual); Hawaii, Kauai, and Maui County departments of public works, records.

Table 408.-- VALUE OF BUILDING PERMITS, RESIDENTIAL AND NONRESIDENTIAL, BY COUNTIES: 1970 TO 1979

(In thousands of dollars. Limited to private construction, including additions, alteration, and repairs.)

Category and year	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
RESIDENTIAL					
1970	224,147	173,815	23,226	8,691	18,417
1971	254,145	181,246	36,926	10,017	25,957
1972	323,756	228,104	42,657	19,808	33,188
1973	460,490	347,767	39,045	21,829	51,850
1974	538,869	376,170	49,995	19,992	92,711
1975	382,552	228,155	38,698	20,009	95,690
1976	259,348	179,674	29,243	13,346	37,086
1977	311,333	192,334	39,505	21,197	58,298
1978	437,601	223,539	60,963	49,005	104,094
1979	588,685	288,863	91,942	100,024	107,857
NONRESIDENTIAL					
1970	188,154	142,995	25,338	4,855	14,966
1971	113,709	86,047	19,236	3,126	5,300
1972	131,274	98,840	16,614	3,256	12,563
1973	137,873	94,123	11,666	6,799	25,284
1974	209,904	156,961	23,920	10,908	18,114
1975	227,272	179,006	11,018	16,086	21,163
1976	196,425	144,455	10,505	3,755	37,710
1977	153,570	118,429	11,850	6,822	16,469
1978	233,006	147,059	13,408	7,711	64,829
1979	290,249	217,219	20,547	13,896	38,587

Source: First Hawaiian Bank, Hawaii's Economic Indicators. Sources, Definitions, and Trends (March 1980), pp. 28-30 and 35-37.

Table 409.-- GOVERNMENT CONSTRUCTION CONTRACTS AWARDED, BY AWARDING AGENCY: 1961 TO 1979

(In thousands of dollars.)

Calendar year 1/	Total	Federal agencies	State agencies	City and County of Honolulu	Other counties
1961 ...	68,635	13,872	29,010	23,707	2,047
1962 ...	69,357	17,563	23,039	25,321	3,434
1963 ...	81,136	16,533	38,717	19,785	6,101
1964 ...	87,003	44,309	20,725	21,757	212
1965 ...	139,753	64,963	46,052	28,635	102
1966 ...	76,788	24,175	28,748	19,539	4,326
1967 ...	137,567	34,581	63,889	35,777	3,320
1968 ...	141,910	38,285	64,297	37,010	2,318
1969 ...	256,288	59,125	165,801	24,818	6,544
1970 ...	176,237	34,508	107,808	30,507	3,414
1971 ...	175,348	54,479	99,500	17,886	3,483
1972 ...	214,612	71,254	117,395	17,101	8,862
1973 ...	261,723	118,052	97,783	36,294	9,594
1974 ...	299,361	102,193	148,731	25,002	23,435
1975 ...	450,250	94,546	227,781	102,007	25,916
1976 ...	382,333	135,817	146,819	58,680	41,017
1977 ...	286,452	85,415	135,360	43,772	21,905
1978 ...	290,004	94,648	155,463	24,999	14,894
1979 ...	388,694	105,683	221,003	45,946	16,062

1/ By date of publication.

Source: Hawaii State Department of Planning and Economic Development, Government Construction Contracts Awarded in Hawaii, 1961-1978 (Statistical Report 129, December 13, 1978), table 1, as updated.

Table 410.-- GOVERNMENT CONSTRUCTION CONTRACTS AWARDED, BY LOCATION OF CONSTRUCTION: 1961 TO 1979

(In thousands of dollars.)

Calendar year 1/	Total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
1961 ...	68,635	54,443	7,271	3,749	3,172
1962 ...	69,357	56,920	4,622	2,493	5,323
1963 ...	81,136	64,856	9,012	824	6,445
1964 ...	87,003	73,417	5,039	4,953	3,594
1965 ...	139,753	126,970	2,118	7,026	3,639
1966 ...	76,788	61,308	5,066	6,658	3,758
1967 ...	137,567	114,903	13,502	3,085	6,077
1968 ...	141,910	120,075	12,083	6,126	3,627
1969 ...	256,288	207,413	36,078	6,852	5,944
1970 ...	176,237	143,828	17,084	3,595	11,730
1971 ...	175,348	149,369	14,622	4,845	6,512
1972 ...	214,612	179,159	19,684	7,927	7,842
1973 ...	261,723	228,427	19,616	7,709	5,971
1974 ...	299,361	243,465	34,842	15,095	5,959
1975 ...	450,250	354,020	41,576	31,580	23,075
1976 ...	382,333	294,072	38,656	14,310	35,296
1977 ...	286,452	221,126	26,884	11,579	26,863
1978 ...	290,004	224,074	23,384	10,140	32,406
1979 ...	388,694	313,105	33,411	12,954	29,224

1/ By date of publication.

Source: Hawaii State Department of Planning and Economic Development, Government Construction Contracts Awarded in Hawaii, 1961-1978 (Statistical Report 129, December 13, 1978), table 1, as updated.

Table 411.-- PRIVATE RESIDENTIAL CONSTRUCTION AND DEMOLITION AUTHORIZED BY PERMITS, BY COUNTIES: 1978 AND 1979

Category and year	State total	City and County of Honolulu	Other counties			
			Total	Hawaii	Kauai	Maui
New 1-family dwellings:						
1978	5,006	2,075	2,931	1,382	555	994
1979	5,997	3,046	2,951	1,429	512	1,010
New duplex units:						
1978	278	260	18	-	12	6
1979	208	134	74	16	44	14
New apartments:						
1978	4,327	2,111	2,216	282	610	1,324
1979	4,800	1,854	2,946	737	1,125	1,084
Units demolished:						
1978	696	558	138	81	5	52
1979	611	460	151	60	15	76

Source: Compiled by the Hawaii State Department of Planning and Economic Development from County building departments.

Table 412.-- CONDOMINIUM PROJECTS REGISTERED WITH THE HAWAII STATE REAL ESTATE COMMISSION: 1976 TO 1979

Year	Projects	Housing units 1/
1976	63	4,167
1977	71	5,017
1978	108	8,846
1979	150	11,887

1/ Includes commercial units (82 in 1979).

Source: Hawaii State Department of Regulatory Agencies, Professional and Vocational Licensing Division, Real Estate Commission, records.

Table 413.-- NUMBER OF CONDOMINIUM UNITS BUILT AND STANDING: 1970 TO 1979

Year	Condominium units added to inventory during year					Condominium units standing, Dec. 31
	All types	1-family and duplex	Town-house	Low-rise	High-rise	
1970	4,908	6	939	874	3,089	15,320
1971	4,318	-	1,062	382	2,874	19,638
1972	2,835	12	770	914	1,139	22,473
1973	6,741	36	1,596	1,619	3,490	29,214
1974	9,275	235	1,775	2,112	5,153	38,489
1975	10,798	68	1,760	2,922	6,043	49,287
1976	7,357	112	655	260	6,330	56,644
1977 1/ ..	3,321	40	942	883	1,456	59,965
1978	3,210	4	604	810	1,792	63,175
1979 2/ ..	6,816	97	1,156	1,447	4,116	69,991

1/ Revised.

2/ Preliminary.

Source: Bank of Hawaii, Department of Business Research, State of Hawaii Condominium Inventory 1962-1978 (June 1979).

Table 414 .-- CHARACTERISTICS OF CONDOMINIUM UNITS, BY COUNTIES: DECEMBER 31, 1978

Subject	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
Total inventory	63,175	49,888	2,741	1,594	8,952
Type of structure:					
Single-family and duplex ...	724	598	-	71	55
Townhouse	10,796	8,302	695	433	1,366
Lowrise	12,464	5,488	1,635	1,054	4,287
Highrise	39,191	35,500	411	36	3,244
Original status:					
New	58,269	45,462	2,586	1,486	8,735
Converted	4,906	4,426	155	108	217
Land ownership:					
Fee simple	20,449	14,505	1,090	802	4,052
Leasehold	42,726	35,383	1,651	792	4,900
Occupancy:					
Resident use	53,683	46,496	1,967	687	4,533
Transient use	9,492	3,392	774	907	4,419

Source: Bank of Hawaii, Department of Business Research, State of Hawaii Condominium Inventory 1962-1978 (June 1979).

Table 415.-- HOUSING UNITS CONVERTED FROM RENTAL UNITS TO CONDOMINIUM UNITS: 1969 TO 1979

Calendar year	Number of units
1969	164
1970	243
1971	83
1972	326
1973	547
1974	498
1975	590
1976	800
1977	492
1978	878
1979	2,093

Source: Tabulation from files of the Hawaii State Department of Regulatory Agencies, Real Estate Commission, by Kathleen Bryan, Oahu Tenants' Coalition, as cited in Lee Gomes, "Condominium Conversions Make Nomads of Isle Renters," Honolulu Star-Bulletin, February 18, 1980, pp. A-1 and A-2.

Table 416.-- HONOLULU CONSTRUCTION COST INDEXES: 1965 TO 1980

(1967=100. Data are annual averages unless otherwise specified.)

Year	Single-family residence			High-rise building		
	All components	Materials prices	Labor 1/	All components	Materials prices	Labor 1/
1965	90.4	92.5	87.8	90.8	95.1	87.2
1966	95.6	97.0	94.0	95.8	98.6	93.2
1967	100.0	100.0	100.0	100.0	100.0	100.0
1968	106.7	106.6	106.8	105.2	102.3	107.6
1969	115.2	115.3	115.2	110.8	104.7	116.1
1970	118.0	112.9	124.5	117.9	109.3	125.2
1971	125.7	116.5	137.4	125.1	110.8	137.7
1972	135.2	123.1	150.6	133.6	114.6	150.0
1973	154.7	150.0	160.9	144.9	129.7	160.6
1974	164.6	159.0	171.6	163.7	154.6	175.6
1975	175.7	167.1	186.6	178.8	171.3	185.3
1976	193.9	176.3	215.9	199.1	178.5	216.9
1977	221.2	197.7	251.2	221.9	188.1	251.2
1978	243.4	218.7	274.5	241.3	204.7	273.1
1979	266.2	248.3	288.8	264.3	237.6	287.5
1980: May .	275.6	253.7	303.2	285.5	265.6	302.8

1/ Wages and benefits.

Source: First Hawaiian Bank, records.

Table 417.-- CHARACTERISTICS OF CONSTRUCTION INDUSTRIES AND SUBDIVIDERS AND DEVELOPERS: 1977

Industry	Number of establishments	All employees (average)	Total receipts ($1,000)
Total	3,170	20,792	1,508,865
Construction industries	3,029	20,187	(D)
General building contractors and operative builders ...	843	7,944	779,765
Heavy construction general contractors	114	2,319	(D)
Special trade contractors ..	2,072	9,924	469,024
Subdividers and developers ...	145	607	(D)

D Withheld to avoid disclosing figures for individual companies; figures are included in higher level totals.

Source: U.S. Bureau of the Census, Census of Construction Industries, 1977, Pacific States, CC77-A-9.

Table 418.-- GENERAL EXCISE TAX BASE FOR CONTRACTING AND RENTALS: 1969 TO 1979

(In thousands of dollars)

Year reported 1/	Contracting	Rentals		
		Total	Hotel rentals 2/	All other rentals 3/
1969	624,957	490,856	...	...
1970	782,972	531,668	176,923	354,745
1971	692,938	573,606	198,539	375,067
1972	695,939	649,954	227,058	422,895
1973	904,629	761,447	264,519	496,928
1974	1,027,195	893,347	319,109	574,237
1975	1,161,913	1,019,792	365,919	653,873
1976	1,012,952	1,161,955	433,300	728,655
1977 4/	983,618	1,274,918	482,990	791,929
1978 4/	1,060,898	1,392,947	535,874	857,073
1979	1,325,460	1,699,947	672,098	1,027,848

1/ Calendar year in which reported, including "prior years" reports. Income received in December is reported the following January, hence these annual totals generally refer to an "income year" ended November 30.

2/ Not reported separately prior to January 1970.

3/ Includes residential, office, automobile, and equipment rentals, and land leases.

4/ Partly estimated.

Source: Hawaii State Department of Taxation, "General Excise and Use Tax Base" (annual tabular release).

Table 419.-- TENURE AND CONTROL OF HOUSING: 1970 TO 1980

Year	All housing units 1/	Owner occupied units 2/		Renter occupied and vacant units		
		Land owned	Land leased	Private 3/	Federal 4/	State and County 4/
1970 ...	216,774	68,422	20,802	106,821	14,439	6,290
1971 ...	223,618	72,086	21,732	108,400	15,089	6,311
1972 ...	231,608	75,939	24,565	109,949	14,959	6,196
1973 ...	239,444	78,878	26,776	112,636	15,071	6,083
1974 ...	249,646	82,494	30,333	114,186	16,373	6,260
1975 ...	260,740	85,264	30,543	121,896	16,386	6,651
1976 ...	268,387	88,284	33,730	122,626	17,225	6,522
1977 ...	275,127	89,980	34,549	126,361	17,493	6,744
1978 ...	281,241	92,989	35,869	127,456	18,653	6,274
1979 ...	286,854	96,273	36,540	127,638	19,022	7,381
1980 ...	(NA)	100,478	36,986	(NA)	19,437	6,371

NA Not available.

1/ As of April 1. Estimates for 1971-1979 will be revised after the release of 1980 census totals.

2/ As indicated by the number of taxpayers claiming home exemptions. The number of owner occupied housing units reported by the U.S. Census of Housing is somewhat higher than the corresponding number based on taxpayer home exemptions, chiefly because of differences in definitions. Data for 1977-1980 refer to January 1; data for 1970-1976, to July 1.

3/ Calculated as a residual after accounting for the known components, some of which pertain to dates other than April 1, and thus not attributable to any specific date.

4/ As of April 1. Data include housing units leased from private owners.

Source: Honolulu Redevelopment Agency, Redevelopment and Housing Research, No. 33 (July 1973) and No. 34 (July 1974); Honolulu Department of Housing and Community Development, Housing and Community Development Research, Nos. 35-39 (July 1975-July 1979); Hawaii State Census Statistical Areas Committee, The Geographic Distribution of Government Housing in Hawaii, 1980 (Report CTC-45, July 1, 1980), table 1; Hawaii State Department of Taxation, "Real Property Tax Valuations and Tax Rates for the Fiscal Year 1980-81," errata, p. 6.

Table 420.-- TENURE AND CONTROL OF HOUSING, BY COUNTIES: 1970 AND 1980

(Condominium units occupied by nonresidents are included in the totals for both 1970 and 1980.)

Year and county	All housing units 1/	Owner occupied units 2/		Renter occupied and vacant units		
		Land owned	Land leased	Private 3/	Federal 4/	State and County 4/
1970						
State total	216,774	68,422	20,802	106,821	14,439	6,290
City & Co. of Honolulu	174,742	48,263	20,409	86,526	14,400	5,144
County of Hawaii	18,972	9,298	249	8,858	20	547
County of Kauai	9,021	3,509	74	5,218	4	216
County of Maui 5/	14,039	7,352	70	6,219	15	383
1980						
State total	334,123	100,478	36,986	170,851	19,437	6,371
City & Co. of Honolulu	251,714	69,147	35,278	123,130	19,290	4,869
County of Hawaii	34,222	15,111	964	17,198	57	892
County of Kauai	14,822	5,551	126	8,827	64	254
County of Maui 5/	33,365	10,669	618	21,696	26	356

1/ As of April 1. The 1970 data are census counts corrected for the misclassification of governmental units on Oahu and in Kalawao, as published by the Honolulu Department of Housing and Community Development. The 1980 data are preliminary 1980 census counts.

2/ As of July 1, 1970 and January 1, 1980. Based on the number of taxpayers claiming home exemptions, rather than on the census tabulations on tenure.

3/ Calculated as a residual and not attributable to any specific month.

4/ As of April 1.

5/ Includes Kalawao County (117 units in 1970 and 122 units in 1980, all owned by the State).

Source: Honolulu Redevelopment Agency, Redevelopment and Housing Research, No. 30, July 1970, p. 6; Honolulu Department of Housing and Community Development, Housing and Community Development Research, No. 35, July 1975, p. 11; Hawaii State Department of Taxation, annual tabular releases; Hawaii State Census Statistical Areas Committee, The Geographic Distribution of Government Housing in Hawaii, 1980 (Report CTC-45, July 1, 1980), table 1; U.S. Bureau of the Census, 1980 Census Press Release Announcements.

Table 421.-- CHARACTERISTICS OF THE HOUSING INVENTORY, FOR OAHU: 1976 AND 1970

Subject	Total	
	1976	1970
Population in housing units	662,000	593,100
All housing units	219,600	174,200
Vacant--seasonal and migratory	300	100
Tenure, race, and vacancy status		
All year-round housing units	219,300	174,100
Occupied	200,400	164,800
Owner occupied	96,100	74,200
Percent of all occupied	47.9	45.0
Renter occupied	104,300	90,600
Vacant year-round	18,900	9,300
For sale only	5,100	1,100
Homeowner vacancy rate	5.0	1.5
Cooperative or condominium	4,500	(NA)
For rent	6,600	4,500
Rental vacancy rate	6.0	4.7
Rented or sold, not occupied	2,000	1,100
Held for occasional use	2,000	1,600
Other vacant	3,200	1,000
Units in structure		
All year-round housing units	219,300	174,100
1, detached	115,200	98,800
1, attached	12,000	3,600
2 to 4	21,000	20,700
5 or more	71,200	51,000
Mobile home or trailer	-	100
Owner occupied	96,100	74,200
1, detached	78,500	65,600
1, attached	2,800	300
2 to 4	2,300	2,800
5 or more	12,500	5,400
Mobile home or trailer	-	-
Renter occupied	104,300	90,600
1, detached	33,200	29,400
1, attached	8,100	3,300
2 to 4	17,500	17,100
5 to 9	12,400	13,000
10 to 19	10,600	12,200
20 to 49	8,900	7,500
50 or more	13,600	8,000
Mobile home or trailer	-	-

Table 421.-- CHARACTERISTICS OF THE HOUSING INVENTORY, FOR OAHU: 1976 AND 1970 -- Continued

Subject	1976	1970
Year structure built		
All year-round housing units	219,300	174,100
April 1970 or later	50,000	(NA)
1965 to March 1970	37,000	38,000
1960 to 1964	35,600	34,600
1950 to 1959	44,700	45,600
1940 to 1949	24,400	24,800
1939 or earlier	27,600	27,400
Plumbing facilities		
All year-round housing units	219,300	174,100
With all plumbing facilites	215,900	168,800
Lacking some or all plumbing facilities	3,500	5,300
Complete bathrooms		
All year-round housing units	219,300	174,100
1	112,100	122,000
1 and one-half	31,800	
2 or more	70,800	46,000
Also used by another household	2,600	6,100
None	2,000	
Complete kitchen facilities		
All year-round housing units	219,300	174,100
For exclusive use of household	213,400	169,000
Also used by another household	1,100	5,100
No complete kitchen facilities	4,800	
Rooms		
All year-round housing units	219,300	174,100
1 room	10,200	9,600
2 rooms	9,400	15,500
3 rooms	30,100	22,400
4 rooms	46,900	35,400
5 rooms	56,600	44,300
6 rooms	34,900	28,100
7 rooms or more	31,300	18,800
Median	4.7	4.6

Table 421.-- CHARACTERISTICS OF THE HOUSING INVENTORY, FOR OAHU: 1976 AND 1970 -- Continued

Subject	1976	1970
Bedrooms		
All year-round housing units	219,300	174,100
None	11,400	10,600
1	35,100	26,600
2	55,400	48,300
3	88,600	69,900
4 or more	28,800	18,700
All occupied housing units	200,400	164,800
Persons		
Owner occupied	96,100	74,200
1 person	8,400	4,800
2 persons	23,300	14,300
3 persons	17,000	13,000
4 persons	20,700	15,100
5 persons	14,400	11,500
6 persons	6,400	7,300
7 persons or more	5,900	8,000
Median	3.5	3.8
Renter occupied	104,300	90,600
1 person	21,200	16,100
2 persons	28,600	22,700
3 persons	18,600	16,600
4 persons	17,700	15,000
5 persons	9,800	9,500
6 persons	4,700	5,400
7 persons or more	3,800	5,400
Median	2.6	2.9
Persons per room		
Owner occupied	96,100	74,200
0.50 or less	40,300	24,200
0.51 to 1.00	48,600	38,400
1.01 to 1.50	5,700	8,300
1.51 or more	1,500	3,200
Renter occupied	104,300	90,600
0.50 or less	35,400	22,300
0.51 to 1.00	56,400	48,400
1.01 to 1.50	8,400	11,800
1.51 or more	4,200	8,100

Table 421.-- CHARACTERISTICS OF THE HOUSING INVENTORY, FOR OAHU: 1976 AND 1970 -- Continued

Subject	1976	1970
With all plumbing facilities	197,900	159,900
Owner occupied	96,000	73,500
1.00 or less	88,800	62,100
1.01 to 1.50	5,700	8,300
1.51 or more	1,500	3,100
Renter occupied	101,900	86,400
1.00 or less	89,400	67,400
1.01 to 1.50	8,400	11,600
1.51 or more	4,100	7,500
Household composition		
Owner occupied	96,100	74,200
2-or-more-person households	87,700	69,400
Male head, wife present, no nonrelatives	75,800	60,100
Other male head	4,600	3,800
Female head	7,200	5,600
1-person households	8,400	4,800
Renter occupied	104,300	90,600
2-or-more-person households	83,100	74,500
Male head, wife present, no nonrelatives	59,900	57,100
Other male head	11,000	6,800
Female head	12,200	10,700
1-person households	21,200	16,100
Year head moved into unit		
Owner occupied	96,100	74,200
1975 or later	13,200	(NA)
Moved in within past 12 months	8,300	(NA)
April 1970 to 1974	29,200	(NA)
1965 to March 1970	18,400	30,700
1960 to 1964	12,300	16,500
1950 to 1959	15,600	18,200
1949 or earlier	7,400	8,700
Renter occupied	104,300	90,600
1975 or later	57,200	(NA)
Moved in within past 12 months	41,500	(NA)
April 1970 to 1974	30,000	(NA)
1965 to March 1970	9,900	74,700
1960 to 1964	3,600	8,900
1950 to 1959	2,300	4,700
1949 or earlier	1,300	2,300

Table 421.-- CHARACTERISTICS OF THE HOUSING INVENTORY, FOR OAHU: 1976 AND 1970 -- Continued

Subject	1976	1970
All year-round housing units	219,300	174,100
Air conditioning		
Room unit(s)	35,100	21,700
Central system	4,800	1,400
None	179,400	151,000
Elevator in structure		
4 floors or more	36,800	16,200
With elevator	31,500	13,400
Walk-up	5,300	2,900
1 to 3 floors	182,500	157,900
Basement		
With basement	17,500	21,200
No basement	201,900	143,600
Sewage disposal		
Public sewer	194,800	149,100
Septic tank or cesspool	24,500	24,000
Other	-	900
All occupied housing units	200,400	164,800
Telephone available		
Yes	189,700	152,200
No	10,700	12,600
Automobiles and trucks available		
Automobiles:		
1	91,000	78,800
2	63,700	55,100
3 or more	21,200	13,000
None	24,500	17,800
Trucks:		
1	17,200	(NA)
2 or more	1,300	(NA)
None	181,900	(NA)

Table 421.-- CHARACTERISTICS OF THE HOUSING INVENTORY, FOR OAHU: 1976 AND 1970 -- Continued

Subject	1976	1970
All occupied housing units -- Continued		
Owned second home		
Yes	4,400	6,600
No	196,000	158,200
Cooking fuel		
Utility gas	33,900	33,100
Bottled, tank, or LP gas	4,200	3,600
Electricity	160,500	125,000
Fuel oil, kerosene, etc.	300	800
Other fuel	-	-
None	1,500	2,200

Source follows next table.

Table 422.-- FINANCIAL CHARACTERISTICS OF THE HOUSING INVENTORY, FOR OAHU: 1976 AND 1970

Subject	1976	1970
All occupied housing units	200,400	164,800
INCOME 1/		
Owner occupied	96,100	74,200
Less than $3,000	1,400	4,000
$3,000 to $4,999	2,200	2,800
$5,000 to $6,999	3,200	3,500
$7,000 to $7,999	1,100	8,100
$8,000 to $8,999	1,200	
$9,000 to $9,999	1,400	
$10,000 to $12,499	5,300	19,200
$12,500 to $14,999	5,000	
$15,000 to $17,499	7,600	26,500
$17,500 to $19,999	8,400	
$20,000 to $24,999	15,500	
$25,000 to $29,999	13,400	10,200
$30,000 to $34,999	9,100	
$35,000 or more	21,200	
Median	23,600	14,900
Renter occupied	104,300	90,600
Less than $3,000	6,400	13,800
$3,000 to $4,999	9,100	11,000
$5,000 to $6,999	12,800	14,100
$7,000 to $7,999	6,800	19,000
$8,000 to $8,999	5,300	
$9,000 to $9,999	6,100	
$10,000 to $12,499	14,000	19,600
$12,500 to $14,999	9,800	
$15,000 to $17,499	10,700	11,100
$17,500 to $19,999	5,800	
$20,000 to $24,999	7,900	
$25,000 to $29,999	3,900	2,000
$30,000 to $34,999	2,400	
$35,000 or more	3,300	
Median	11,000	8,000
Specified owner occupied 2/	79,400	65,000
VALUE		
Less than $5,000	100	200
$5,000 to $9,999	100	500
$10,000 to $12,499	-	500
$12,500 to $14,999	-	400
$15,000 to $17,499	-	800
$17,500 to $19,999	100	1,100
$20,000 to $24,999	300	4,800
$25,000 to $29,999	500	18,800
$30,000 to $34,999	1,100	

Table 422.-- FINANCIAL CHARACTERISTICS OF THE HOUSING INVENTORY, FOR OAHU: 1976 AND 1970 -- Con.

Subject	1976	1970
VALUE -- Con.		
$35,000 to $39,999	1,000	23,400
$40,000 to $49,999	2,700	
$50,000 to $59,999	7,100	14,400
$60,000 to $74,999	17,700	
$75,000 or more	48,600	
Median	75,000+	38,500
VALUE-INCOME RATIO		
Median	3.1	2.6
SELECTED MONTHLY HOUSING COSTS 3/		
Units with a mortgage	58,800	NA
Less than $100	100	NA
$100 to $119	100	NA
$120 to $149	800	NA
$150 to $174	1,400	NA
$175 to $199	2,400	NA
$200 to $224	2,700	NA
$225 to $249	3,300	NA
$250 to $274	3,400	NA
$275 to $299	3,100	NA
$300 to $349	6,100	NA
$350 to $399	5,500	NA
$400 to $499	10,400	NA
$500 or more	14,600	NA
Not reported	4,900	NA
Median	382	NA
Units owned free and clear	20,600	NA
Less than $50	2,000	NA
$50 to $69	3,900	NA
$70 to $79	2,700	NA
$80 to $89	2,400	NA
$90 to $99	2,100	NA
$100 to $119	2,200	NA
$120 to $149	1,700	NA
$150 to $199	600	NA
$200 or more	300	NA
Not reported	2,500	NA
Median	81	NA
SELECTED MONTHLY HOUSING COSTS AS PERCENTAGE OF INCOME 3/		
Units with a mortgage	58,800	NA
Median	18	NA
Units owned free and clear	20,600	NA
Median	6	NA

Table 422.-- FINANCIAL CHARACTERISTICS OF THE HOUSING INVENTORY, FOR OAHU: 1976 AND 1970 -- Con.

Subject	1976	1970
GROSS RENT		
Specified renter occupied 4/	104,200	90,200
Less than $50	1,400	3,900
$50 to $59	1,100	3,000
$60 to $69	900	2,800
$70 to $79	1,500	2,600
$80 to $99	2,600	6,100
$100 to $119	2,000	11,600
$120 to $149	4,600	14,000
$150 to $174	10,200	18,600
$175 to $199	11,100	
$200 to $224	11,300	11,400
$225 to $249	8,900	
$250 to $274	8,700	
$275 to $299	8,400	
$300 to $349	11,900	5,000
$350 or more	15,300	
No cash rent	4,300	11,300
Median	234	140
Nonsubsidized renter occupied 5/	82,300	NA
Median	241	NA
GROSS RENT AS PERCENTAGE OF INCOME		
Specified renter occupied 4/	104,200	90,200
Less than 10 percent	6,400	8,500
10 to 14 percent	11,300	13,000
15 to 19 percent	16,600	13,200
20 to 24 percent	13,500	10,000
25 to 34 percent	18,900	11,700
35 percent or more	32,900	20,400
Not computed	4,600	13,500
Median	26	22
Nonsubsidized renter occupied 5/	82,300	NA
Median	27	NA
CONTRACT RENT		
Specified renter occupied 4/	104,200	90,200
Median	218	130

Table 422.-- FINANCIAL CHARACTERISTICS OF THE HOUSING INVENTORY, FOR OAHU: 1976 AND 1970 -- Con.

1/ Income of families and primary individuals in 12 months preceding date of enumeration.

2/ Limited to 1-family homes on less than 10 acres and no business on property.

3/ Sum of payments for real estate taxes, property insurance, utilities, fuel, water, garbage and trash collections, and mortgage at time of enumeration.

4/ Excludes 1-family homes on 10 acres or more.

5/ Excludes 1-family homes on 10 acres or more, mobile homes or trailers, housing units in public housing projects, and housing units with government rent subsidies; includes units where the subsidized/ nonsubsidized status was not reported.

Source: U.S. Department of Commerce and U.S. Department of Housing and Urban Development, Current Housing Reports, Annual Housing Survey: 1976, Honolulu, Hawaii, Standard Metropolitan Statistical Area, H-170-76-48 (GPO, October 1978), tables A-1 and A-2.

Table 423.-- CHARACTERISTICS OF OCCUPIED HOUSING UNITS, FOR SPECIFIED ISLANDS: 1975

Characteristics	Oahu	Hawaii	Maui, Molokai, Lanai	Kauai (1974)
Number of housing units	209,676	22,112	17,732	8,550
Occupants:				
Average household size 1/	3.43	3.38	3.37	3.45
Median household income (dollars)	14,139	11,337	13,370	10,750
Median family income (dollars)	14,611	12,028	...	...
Percent of households below poverty level	10.0	19.8	...	...
Tenure and control (percent):				
Owner occupied	47.8	60.6	65.9	53.8
Condominium or cooperative	3.5	0.3	2.7	...
Other owner occupied	44.3	60.3	63.2	...
Renter occupied (incl. no cash rent)	51.7	39.4	34.1	46.1
Percent of owner occ. on leased land	31.6	6.8	6.0	14.8
Percent of renter occ. owned by govt.	21.5	6.8	3.9	...
Structural characteristics (percent):				
In one-unit structures	57.1	82.0	84.0	...
In one-story structures	57.6	80.0	83.0	...
With passenger elevator	11.0	2.4	5.2	...
With 1 to 3 rooms	18.4	11.6	13.8	...
With 0 to 2 bedrooms	42.0	32.1	34.1	...
With both hot and cold running water	99.2	96.0	98.0	...
With private flush toilet and tub or shower	98.8	96.6	98.8	...
With private sink, stove, and refrigerator	98.4	96.9	98.8	...
In "good" condition 2/	85.6	82.6	86.1	...
Median monthly costs (dollars):				
Owner occupied:				
Total, excl. maintenance and utilities	256	89	137	...
Utilities	56	45	53	...
Renter occupied, excl. no cash rent:				
Contract rent	197	135	164	(3/)
Utilities	36	30	45	...

1/ Before adjustment for apparent overstatement; see source for discussion.

2/ Units were classified as "good," "fair," or "poor;" see source for criteria.

3/ For rented plantation housing, $28; for other rented units, $125.

Source: Survey & Marketing Services, Inc., OEO 1975 Census Update Survey for Oahu (Sept. 1976), Hawaii County (Sept. 1976), and Maui County (Feb. 1976), as corrected; University of Hawaii, Center for Nonmetropolitan Planning and Development, Kauai Socioeconomic Profile (May 1975).

Table 424.-- CHARACTERISTICS OF OCCUPIED HOUSING UNITS, BY DISTRICTS: 1975

District 1/	Percent 1-family detached	Percent owner occupied	Monthly cost (dollars)	
			Owned 2/	Rented 3/
Oahu, total	57.7	47.8	256	197
Niu-Hawaii Kai	83.7	81.0	399	397
Diamond Head-Aina Haina	96.6	87.0	374	367
Kaimuki-Kapahulu	73.8	55.4	129	196
Wilhelmina-Palolo	78.9	68.1	188	241
Manoa-Makiki	39.8	46.4	290	223
Moiliili-Makiki	8.9	21.4	262	198
Waikiki	6.3	24.8	258	206
Downtown-Kakaako	3.4	11.7	290	170
Nuuanu-Punchbowl	82.0	67.6	179	182
Upper Kalihi	66.7	57.2	182	179
Kalihi-Kapalama	29.3	25.0	175	120
Moanalua-Salt Lake	44.3	34.3	285	189
Aiea-Halawa	78.8	67.8	241	234
Pearl City	69.0	64.5	247	304
Pearl Harbor	36.9	15.3	199	184
Waipahu	63.9	41.8	251	252
Ewa-Makakilo	82.6	45.1	270	150
Waianae Coast	84.5	49.3	162	186
Mililani-Waipio	74.5	63.9	307	290
Wahiawa-Schofield	44.1	27.0	258	194
North Shore-Waialua	86.0	39.8	157	183
Upper Windward	87.3	57.2	347	250
Kaneohe	78.6	55.4	241	192
Kailua	91.3	71.7	319	286
Waimanalo	85.4	66.7	94	106
Hawaii County, total	82.8	60.6	89	135
Hilo-Wailea	89.8	63.7	73	83
Hilo (makai)	53.7	36.8	112	158
Hilo (mauka)	93.2	77.2	128	212
Puna-Ka'u	97.4	76.9	88	92
Kona	81.3	55.0	89	173
North Hilo-Kohala	87.1	54.9	68	77
Maui County, total	84.0	65.9	137	164
Northeast Maui	97.5	73.1	116	193
Kihei-Kula	70.7	61.2	244	266
Kahului	88.4	78.5	157	212
Wailuku-Waikapu	85.6	73.2	123	178
Lahaina	69.5	56.7	168	222
Molokai	96.5	44.3	74	59
Lanai	98.5	52.5	51	56

Continued on next page.

Table 424.-- CHARACTERISTICS OF OCCUPIED HOUSING UNITS, BY DISTRICTS: 1975 -- Con.

District 1/	Percent 1-family detached	Percent owner occupied	Monthly cost (dollars)	
			Owned 2/	Rented 3/
Kauai, total (1974)	...	53.8	...	125
Hanalei	...	53.2	...	124
Wailua-Anahola	...	64.4	...	102
Kapaa	...	48.5	...	153
Puhi-Hanamaulu	...	65.8	...	68
Lihue	...	71.7	...	118
Koloa-Poipu	...	51.7	...	138
Eleele-Kalaheo	...	55.7	...	149
Kaumakani-Hanapepe	...	28.8	...	154
Kekaha-Waimea	...	42.6	...	99

1/ See maps, pp. 39 - 41 . These districts consist of groupings of census tracts, which differ in most cases from the districts described in table 6 and the urban places described in table 7.

2/ Median monthly housing costs, excluding maintenance costs and utilities, for owner occupied housing units.

3/ Median monthly contract rent of renter occupied housing units, excluding those not paying cash rent.

Source: Survey and Marketing Services, Inc., OEO 1975 Census Update Survey for Oahu (September 1976), Hawaii County (September 1976), and Maui County (February 1976); University of Hawaii, Center for Nonmetropolitan Planning and Development, Kauai Socioeconomic Profile (May 1975).

Table 425.-- HAWAII HOUSING AUTHORITY OPERATIONS: 1970 TO 1979

Year	Units managed by HHA 1/		Population in units 1/	Total assets 1/ ($1,000)
	Total	Occupied		
1970	4,974	4,737	19,791	69,522
1971	4,917	4,683	18,806	75,003
1972	5,403	5,333	19,368	80,848
1973	5,406	5,361	19,078	82,060
1974	5,547	5,407	18,898	72,826
1975	5,442	5,419	18,175	81,169
1976	5,515	5,498	17,783	88,426
1977 3/ ...	5,555	5,524	18,214	80,843
1978	5,404	5,349	16,799	83,098
1979	5,461	5,391	16,819	103,787

Year	Operating revenues of HHA 2/ ($1,000)		Operating revenues per unit per mo. 2/ (dollars)	Average rent charged 2/ (dollars)
	Gross	Net		
1970	4,991	48	87.79	79.01
1971	6,238	54	111.00	67.61
1972	6,006	22	93.84	70.05
1973	6,175	19	95.98	73.26
1974	6,940	100	106.95	84.94
1975	7,186	422	106.85	67.88
1976	8,057	128	136.38	68.18
1977 3/ ...	8,696	-767	103.36	97.05
1978	7,619	387	129.06	108.42
1979	8,488	788	131.69	121.98

1/ As of June 30.

2/ Year ended June 30.

3/ Gross operating revenue includes Federal subsidies of $1,843,000. Net loss reflects the utilization of operating reserves absorbing the excess of expenditures over receipts.

Source: Hawaii Housing Authority, records.

Table 426.-- HOUSING VACANCY SURVEYS OF OAHU: 1977 TO 1980

(Sponsored by the Federal Home Loan Bank and conducted by U.S. mail carriers.)

Date of survey and type of unit	All deliveries 1/	Vacant 1/		New units and units under construction 2/		
		Number	Percent	Total	New	Under construction
APRIL 1977 3/						
All deliveries	213,850	3,399	1.6	4,301	2,073	2,228
Single-family residences	113,937	488	0.4	564	155	409
Apartments	99,913	2,911	2.9	3,737	1,918	1,819
Mobile homes	-	-	...	-	-	-
MARCH 1978						
All deliveries	224,237	3,312	1.5	6,686	1,866	4,820
Single-family residences	117,767	709	0.6	2,063	452	1,611
Apartments	106,467	2,603	2.4	4,623	1,414	3,209
Mobile homes	3	-	0	-	-	-
MAY 1979						
All deliveries	232,134	2,584	1.1	6,251	1,497	4,754
Single-family residences	116,300	376	0.3	1,714	330	1,384
Apartments	115,766	2,208	1.9	4,537	1,167	3,370
Live aboard boats	66	-	0	-	-	-
Mobile homes	2	-	0	-	-	-
MARCH 1980						
All deliveries	234,963	3,039	1.3	6,045	2,065	3,980
Single-family residences	116,079	552	0.5	1,952	490	1,462
Apartments	119,817	2,487	2.1	4,093	1,575	2,518
Live-aboard boats	65	-	0	-	-	-
Mobile homes	2	-	0	-	-	-

1/ Excludes new units, completed but as yet unoccupied.
2/ As yet unoccupied.
3/ Dated March 1977 in the original report but April 1977 thereafter.
Source: Federal Home Loan Bank of Seattle, Honolulu Housing Vacancy Survey (annual).

Table 427.-- VACANCY RATES FOR HOUSING ON OAHU AND THE NEIGHBOR ISLANDS: QUARTERLY, 1970 TO 1980

(Percent vacant, based on housing units sampled for the Hawaii Health Surveillance Program survey. Units occupied by households temporarily absent were classified as occupied. The base excludes units occupied by transients.)

Year	Oahu 1/				Other islands 2/			
	1st qtr.	2nd qtr.	3rd qtr.	4th qtr.	1st qtr.	2nd qtr.	3rd qtr.	4th qtr.
1970 ..	4.0	3.4	2.7	3.9	...	2.1	4.1	2.5
1971 ..	4.6	3.2	2.2	2.4	3.6	4.6	6.4	5.9
1972 ..	3.8	4.2	3.5	2.4	4.8	6.5	4.7	6.0
1973 ..	2.7	2.6	2.4	2.9	4.4	5.0	4.7	6.0
1974 ..	4.4	4.2	4.7	2.2	6.5	3.9	3.6	4.7
1975 ..	3.0	5.0	8.2	5.8	6.7	7.0	8.2	5.8
1976 3/	...	...	4.7	5.4	...	...	5.5	5.7
1977 ..	5.3	5.9	6.5	6.5	6.4	5.3	6.9	2.8
1978 ..	4.3	2.8	3.6	4.2	6.7	4.1	3.9	3.7
1979 ..	2.7	3.0	2.3	3.1	4.0	6.0	2.8	3.9
1980 ..	2.6	4.8			2.8	5.4		

1/ Based on quarterly samples of 592 to 1,731 units before 1978 and 817 to 1,081 units in 1978-1980.

2/ Based on quarterly samples of 274 to 1,055 units before 1978 and 505 to 871 units in 1978-1980. Data are unavailable for the first quarter of 1970.

3/ Survey suspended during the first half of 1976.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, records.

Table 428.-- MOBILITY OF HOUSEHOLD HEADS, BY MILITARY STATUS AND COUNTIES: 1979

(Based on place of residence one year prior to survey date.)

Island and military status of household head	All household heads	Non-movers	Movers		Mobility not reported
			Number	Percent 1/	
State total	270,154	221,300	45,908	17.2	2,946
Military 2/	24,424	12,458	9,432	43.1	126
Civilian 2/	245,444	208,841	34,069	14.0	2,534
Status not reported	285	-	-	0	285
Oahu	213,880	171,272	40,467	19.1	2,141
Military 2/	24,397	12,458	11,813	48.7	126
Civilian 2/	189,217	158,814	28,655	15.3	1,748
Status not reported	266	-	-	0	266
Other islands	56,274	50,028	5,441	9.8	805
Hawaii	25,929	22,967	2,391	9.4	571
Kauai	10,702	9,579	1,030	9.7	93
Maui, Molokai, and Lanai	19,642	17,482	2,019	10.4	141

1/ Based on number reporting.

2/ Military status of household head at the time of the survey.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 429.-- PRICE GROUP OF NEW SALES HOUSING COMPLETED, BY TYPE OF STRUCTURE AND LAND OWNERSHIP, FOR OAHU: 1977 AND 1978

[Survey includes only subdivisions or projects with five or more completions during the year.]

Year completed, type of structure, and land ownership	All price groups	Under $50,000	$50,000 to $69,999	$70,000 to $99,999	$100,000 and over	Median price (dollars)
1977						
All units	2,915	409	1,033	1,260	213	70,369
1-family detached:						
Fee simple	669	-	36	564	69	85,878
Leasehold	291	93	10	156	32	78,173
1-family attached:						
Fee simple	69	-	-	69	-	85,000
Leasehold	-	-	-	-	-	(X)
Condo fee simple ..	133	-	73	59	1	68,750
Condo leasehold ...	216	9	119	31	57	64,595
Multi-family:						
Condo fee simple ..	342	178	164	-	-	48,833
Condo leasehold ...	1,195	129	631	381	54	67,093
1978						
All units	2,274	108	500	1,083	583	84,654
1-family detached:						
Fee simple	681	-	-	511	170	89,990
Leasehold	246	-	6	99	141	>100,000
1-family attached:						
Fee simple	247	-	6	221	20	85,950
Leasehold	12	-	9	3	-	66,667
Condo fee simple ..	177	41	87	49	-	59,500
Condo leasehold ...	66	10	56	-	-	57,667
Multi-family:						
Condo fee simple ..	-	-	-	-	-	(X)
Condo leasehold ...	845	57	336	200	252	74,425

Footnotes and source follow next table.

Table 430.-- SALES STATUS OF NEW SALES HOUSING COMPLETED, BY PRICE GROUP AND TYPE OF STRUCTURE, FOR OAHU: 1977 AND 1978

[Survey includes only subdivisions or projects with five or more completions during the year.]

Year completed and price group or type of structure	Units completed during year	Sold before const. started	Speculative units		
			Sold by Dec. 31	Unsold by Dec. 31	
				Number	Percent 1/
1977					
All units	2,915	612	1,680	623	27.1
Price group:					
Under $50,000	409	107	293	9	4.9
$50,000 to $59,999	351	23	169	159	48.5
$60,000 to $69,999	682	25	525	132	20.1
$70,000 to $99,999	1,260	318	640	302	32.1
$100,000 and over	213	139	53	21	28.4
Median (dollars)	70,369	84,245	67,200	71,142	(X)
Type of structure:					
1-family detached	960	456	443	61	12.1
1-family attached	418	102	244	72	22.8
Multi-family	1,537	54	993	490	33.0
1978					
All units	2,274	1,649	563	62	9.9
Price group:					
Under $50,000	108	92	16	-	0
$50,000 to $59,999	328	171	150	7	4.5
$60,000 to $69,999	172	93	59	20	25.3
$70,000 to $99,999	1,083	875	203	5	2.4
$100,000 and over	583	418	135	30	18.2
Median (dollars)	84,654	86,063	78,350	94,000	(X)
Type of structure:					
1-family detached	927	831	85	11	11.5
1-family attached	502	343	134	25	15.7
Multi-family	845	475	344	26	7.0

X Not applicable.

1/ Of speculative units.

Source: U.S. Department of Housing and Urban Development, Honolulu Area Office, "HUD Survey of Unsold New Houses" (unpublished tables).

Table 431.-- MULTIPLE LISTING SERVICE LISTINGS AND SALES, FOR OAHU: 1957 TO 1979-1980

(Data include 1-family and condominium properties for all years and cooperative, income, and vacant properties through 1977.)

Year	Number listed	Sold		
		Number	Percent	Average selling price (dollars)
1957	1,805	924	51.2	19,694
1958	2,064	936	45.3	21,365
1959	1,666	967	58.0	23,560
1960	1,868	795	42.6	27,808
1961	1,847	541	29.3	29,144
1962	1,522	515	33.8	29,332
1963	1,743	624	35.8	30,323
1964	1,934	882	45.6	32,951
1965	1,854	910	49.1	35,727
1966	2,137	813	38.0	35,652
1967	2,124	963	45.3	38,810
1968	2,375	1,133	47.7	42,546
1969	2,606	1,422	54.6	46,333
1970	3,415	1,693	49.6	44,755
1971	4,165	2,157	51.8	58,651
1972	6,022	4,555	75.6	60,810
1973	7,845	5,348	68.2	70,769
1974	10,933	4,821	44.1	70,918
1975	11,271	4,174	37.0	71,485
1976	10,627	4,311	40.6	75,483
1977	10,597	5,523	52.1	81,213
1978-1979 1/ .	9,926	5,714	57.6	82,076
1979-1980 1/ .	13,506	8,009	59.3	103,698

1/ Year ended February 28 or 29.

Source: Honolulu Board of Realtors, records.

Table 432.-- MULTIPLE LISTING SERVICE LISTINGS AND SALES OF RESIDENTIAL AND CONDOMINIUM UNITS, FOR OAHU: 1972 TO 1979-1980

Year	Number of units listed		Number of units sold	
	Residential	Condominium	Residential	Condominium
1972	3,472	2,080	2,891	1,306
1973	4,148	3,185	2,699	2,379
1974	4,826	4,912	2,246	2,302
1975	4,821	5,323	2,265	1,715
1976	4,791	4,903	2,472	1,650
1977	4,452	5,422	2,985	2,285
1978-1979 1/ ...	3,522	6,404	2,139	3,575
1979-1980 1/ ...	4,105	9,401	2,253	5,756

Year	Percent of listed units sold		Average selling price (dollars)	
	Residential	Condominium	Residential	Condominium
1972	83.3	62.8	65,723	43,869
1973	65.1	74.7	85,914	46,811
1974	46.5	46.9	83,611	54,956
1975	47.0	32.2	83,797	55,596
1976	51.6	33.7	85,691	59,842
1977	67.0	42.1	94,028	61,484
1978-1979 1/ ...	60.7	55.8	114,264	67,783
1979-1980 1/ ...	54.9	61.2	151,775	84,880

1/ Year ended February 28 or 29.

Source: Honolulu Board of Realtors, records.

Table 433.-- MULTIPLE LISTING SERVICE LISTINGS AND SALES, BY TYPE OF PROPERTY, FOR OAHU: 1979-1980

(Year ended February 29, 1980.)

Type of property	Number of units listed	Units sold		Selling price of units sold	
		Number	Percent	Total ($1,000)	Per unit (dollars)
All categories	13,506	8,009	59.3	830,518	103,698
Single-family residential	4,105	2,253	54.9	341,948	151,775
1 and 2 bedrooms	270	145	53.7	17,985	124,036
3 bedrooms	2,217	1,304	58.8	179,416	137,589
4 or more bedrooms	1,618	804	49.7	144,547	179,784
Condominiums	9,401	5,756	61.2	488,570	84,880
1 and 2 bedrooms	7,523	4,544	60.4	371,000	81,646
3 bedrooms	1,654	1,061	64.1	102,345	96,461
4 or more bedrooms	224	151	67.4	15,225	100,829

Source: Honolulu Board of Realtors, records.

Table 434.-- OFFICE BUILDING OCCUPANCY, FOR HONOLULU: QUARTERLY, 1980

(Most of the office buildings surveyed are in the Honolulu central business district, but a few are at other locations in Honolulu.)

Year and quarter	Number of buildings surveyed	Floor area		
			Occupied	
		Total (sq. ft.)	Amount (sq. ft.)	Percent
1980: First	40	5,179,022	5,002,473	96.6
Second	37	4,802,857	4,699,744	97.9

Source: Building Owners and Managers Association Hawaii, Newsletter for May and August 1980.

Table 435.-- NUMBER OF DEEDS FILED AND RECORDED AND APPROXIMATE VALUE OF LAND CONVEYED: 1970 TO 1980

Year ended June 30	Number of deeds filed and recorded	Approximate value of land conveyed (dollars) 1/
1970	14,876	822,665,446
1971	16,036	969,486,762
1972	20,354	1,211,269,225
1973	21,874	1,736,756,401
1974	21,435	2,076,149,450
1975	17,892	1,308,805,819
1976	20,072	915,195,342
1977	22,618	1,771,313,731
1978	24,902	1,306,408,450
1979	28,586	3,709,276,737
1980	28,996	4,529,726,150

1/ Data include leases, agreement of sales assignments, subleases, etc., as well as deeds.

Source: Hawaii State Department of Land and Natural Resources, Annual Report (annual); Bureau of Conveyances, records.

Table 436.-- REAL ESTATE MORTGAGE LOANS OUTSTANDING, BY TYPE OF LENDING INSTITUTION: 1970 TO 1979

(In thousands of dollars. As of December 31.)

Year	All institutions	Banks	Savings, building and loan associations	Trust companies 1/	Industrial loan companies	Insurance companies
1970	1,790,220	469,483	678,688	4,760	37,587	599,702
1971	2,093,033	496,899	854,183	5,156	63,852	672,944
1972	2,424,166	570,525	1,061,068	2,199	90,733	699,641
1973	2,797,345	662,989	1,231,323	984	194,758	707,292
1974	3,210,216	751,142	1,344,025	593	291,566	822,890
1975	3,564,867	816,412	1,547,871	479	318,305	881,800
1976	3,959,529	883,500	1,841,239	2,307	284,856	947,627
1977	4,495,971	992,773	2,229,623	1,241	292,066	980,268
1978	5,320,761	1,150,080	2,762,269	1,913	330,902	1,075,597
1979	(NA)	1,399,782	3,256,232	466	406,753	(NA)

NA Not available.

1/ Excluding mortgage loans held in trust and agency accounts.

Source: Hawaii State Department of Regulatory Agencies, Bank Examination Division and Insurance Division.

Table 437.-- AVERAGE VALUES FOR EXISTING 1-FAMILY HOMES INSURED UNDER F.H.A. SECTION 203: 1972, 1978 AND 1979

Subject	1972	1978	1979
Property value (dollars)	41,611	71,449	78,447
Market price of site (dollars)	16,924	31,138	35,115
Price of site as percent of value	40.7	43.5	43.7
Improved living area (square feet)	1,041	1,146	1,138
Lot size (square feet)	6,860	7,833	7,530
Sale price per square foot (dollars)	38.88	60.73	63.65
Site price per square foot (dollars)	2.66	(NA)	5.20

NA Not available.

Source: U.S. Department of Housing and Urban Development, FHA Homes. Data for States and Selected Areas on Characteristics of FHA Operations under Section 203 (annual).

Table 438.-- CHANGES IN THE NUMBER OF ELEVATORS: 1975 TO 1978

Year	Added	Removed	In operation, December 31
1975	248	4	2,568
1976	202	2	2,768
1977	119	6	2,881
1978	121	7	2,995

Source follows next table.

Table 439.-- ELEVATORS, ESCALATORS, AND SIMILAR FACILITIES: DECEMBER 31, 1974 AND 1979

Facility	State totals		Geographic location: 1979						
				Hawaii Co.		Maui Co.			Kauai Co.
	1974	1979	Oahu	Hilo	Kona	Maui	Molokai	Lanai	
Total 1/	2,324	3,164	2,701	106	61	231	1	1	63
Elevators	1,967	2,689	2,280	81	58	214	-	1	55
Under 9 stories	1,092	1,454	1,098	72	58	178	-	1	47
Hydro	302	476	336	25	18	73	-	1	23
Roped	790	978	762	47	40	105	-	-	24
9 to 18 stories	612	770	722	9	-	31	-	-	8
19 to 28 stories	189	284	279	-	-	5	-	-	-
29 to 38 stories	68	139	139	-	-	-	-	-	-
39 stories or more	6	42	42	-	-	-	-	-	-
Escalators and moving walks	144	211	204	6	-	1	-	-	-
Inclined lifts	-	9	2	3	1	2	-	-	1
Man lifts	11	10	10	-	-	-	-	-	-
Dumbwaiters	200	243	204	16	2	13	1	-	7
Workmen's hoists 1/	45	7	5	-	-	2	-	-	-
Other facilities	2	2	1	-	-	1	-	-	-
Buildings with facilities 1/	1,118	1,485	1,258	62	27	108	1	1	28

1/ Workmen's hoists not included in totals.

Source: Hawaii State Department of Labor and Industrial Relations, Division of Occupational Safety and Health, Technical Inspection Branch, records.

Table 440.-- TALLEST STRUCTURES ON OAHU: APRIL 1980

Category and name or structure	Address	Year built	Height	
			Stories	Feet
Apartment houses:				
Regency Tower II	98-288 Kaonohi St. ...	1979	43	350
Discovery Bay	1778 Ala Moana	1976	42	350
Regency Tower	2525 Date St.	1974	42	350
Century Center	1750 Kalakaua Ave. ...	1978	41	350
Yacht Harbor Towers	1600 Ala Moana	1972	40	350
Contessa	2825 So. King St.	1971	37	348
Hotels:				
Ala Moana Hotel	410 Atkinson Drive ...	1970	38	390
Ala Wai Sunset	445 Seaside Ave.	1979	44	350
Pacific Beach Hotel.......	155 Liliuokalani Ave..	1979	43	350
Waikiki Ala Wai Waterfront	444 Niu St.	1979	43	350
Waikiki Lodge II	343 Hobron Lane	1979	43	350
Hyatt Regency Hotel	2424 Kalakaua Ave. ...	1976	39	350
Office buildings:				
Pacific Trade Center	1058 Alakea St.	1972	30	350
Grosvenor Center	735 Bishop St.	1979	30	350
Ala Moana Bldg.	1441 Kapiolani Blvd. .	1960	25	300
Aloha Tower	Pier 9, foot of Fort Street	1926	10	184
Towers:				
VLF Antenna 1/	Lualualei	1972	...	1,503
KGMB-TV	1534 Kapiolani Blvd. .	c. 1966	...	436
Dole water tower	Iwilei	1927	...	199
Other structures:				
Tripler Army Hospital	Moanalua	1948	14	189
Central Union Church	1660 So. Beretania St.	1924	...	160

1/ VLF Antenna of the Radio Transmitting Facility, Lualualei, of the Naval Communications Station, Honolulu. Two towers, each 1,503 feet, completed in August 1972.

Source: City and County of Honolulu, Building Department, records.

Section 22

MANUFACTURES

This section presents statistics on the manufacturing segment of the economy, including sugar processing and pineapple canning.

The number of manufacturing establishments in Hawaii increased from 672 in 1963 to 773 in 1972 and 946 in 1977. The value added by manufacture rose from $326 million in 1967 to $410 million in 1972 and $791 million in 1977. Three-fourths of all manufacturing activity in the State was on Oahu in 1977. Food processing -- mostly sugar and pineapple -- accounted for more than 44 percent of the value added by manufacture in that year. Between 1969 and 1979, the general excise and use tax base increased 55 percent for sugar processing, 41 percent for pineapple canning, and 102 percent for all other manufacturing. There were three pineapple canneries and 14 sugar mills in Hawaii in mid-1979, in each case about half as many as ten years earlier. The production of canned pineapple fruit and juices in 1979 amounted to 19 million actual cases, well below the levels of earlier years. Sugar production in 1979 amounted to 1.06 million short tons, about the same level as in other recent years. The value of sugar production (including commercial molasses) was $346 million, well below the record set in 1974 but still the third best year in Island history. Important manufactures other than food processing include apparel ($45.5 million in value added in 1977), printing and publishing ($94.4 million), and prefabricated metal products ($22.8 million).

Sources for data on this subject include the United States Census of Manufactures, most recently conducted for 1977, the Annual Survey of Manufactures, and publications of the Hawaii State Department of Agriculture and Department of Taxation, Hawaiian Sugar Planters' Association, and Pineapple Growers Association of Hawaii. Historical Statistics of Hawaii, Section 16, reviews the figures for earlier years. Statistics for the nation as a whole appear in Section 29 of the Statistical Abstract of the United States: 1979.

Table 441.--MANUFACTURES: 1963 TO 1977

Year	All employees		Production workers		
	Number (1,000)	Payroll (millions of dollars)	Number (1,000)	Hours (millions)	Wages (millions of dollars)
1963 ..	25.1	109.0	18.7	33.2	67.5
1964 ..	25.0	113.7	18.3	33.1	69.4
1965 ..	25.4	118.1	18.7	34.0	73.5
1966 ..	24.8	123.8	18.7	34.3	78.2
1967 ..	25.4	139.6	19.0	35.9	86.9
1968 ..	23.2	134.0	17.4	32.2	83.3
1969 ..	23.9	145.3	17.9	33.2	90.8
1970 ..	24.8	168.7	18.1	35.3	102.8
1971 ..	24.4	176.6	17.5	34.3	105.7
1972 ..	24.8	191.1	17.7	33.1	113.7
1973 ..	24.3	195.5	17.5	31.9	117.9
1974 ..	22.5	210.4	15.8	28.8	116.6
1975 ..	23.7	236.7	16.9	30.6	133.0
1976 ..	24.2	266.4	17.1	30.8	153.9
1977 ..	25.1	276.4	17.2	31.3	160.3

Year	Number of establishments	Value added by manufacture (millions of dollars)	Cost of materials 1/ (millions of dollars)	Value of shipments 1/ (millions of dollars)	New capital expenditures (millions of dollars)
1963 ..	672	261.1	(NA)	(NA)	15.4
1964 ..	(NA)	263.8	372.0	638.4	17.7
1965 ..	(NA)	292.1	365.9	655.5	17.2
1966 ..	(NA)	310.8	371.5	680.9	24.1
1967 ..	697	326.2	399.6	723.4	26.0
1968 ..	(NA)	353.9	381.9	737.1	15.6
1969 ..	(NA)	351.0	408.3	758.1	19.8
1970 ..	(NA)	408.6	451.1	856.9	40.5
1971 ..	(NA)	435.0	465.9	899.9	28.0
1972 ..	773	410.0	548.3	955.6	46.7
1973 ..	(NA)	496.1	592.9	1,086.4	36.6
1974 ..	(NA)	913.8	952.9	1,848.2	50.2
1975 ..	(NA)	685.4	1,116.2	1,800.3	51.5
1976 ..	(NA)	700.3	1,156.8	1,854.8	55.6
1977 ..	946	790.9	1,173.4	1,976.8	53.0

NA Not available.

1/ Aggregate cost of materials and value of shipments figures for manufacturing industries include extensive duplication, since products of some industries are used as materials by others.

Source: U.S. Bureau of the Census, 1977 Census of Manufacturers, Geographic Area Series, Preliminary Report, Hawaii, MC77-A-12(P), August 1979.

Table 442.-- MANUFACTURES, BY COUNTIES: 1977

County	All establishments		All employees		Production workers	
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (millions of dollars)	Number (1,000)	Hours (millions)
State total	946	231	25.1	276.4	17.2	31.3
Honolulu	758	191	19.7	214.9	13.1	23.1
Hawaii	99	16	2.4	30.3	1.9	3.6
Kauai	26	6	0.7	8.3	0.5	1.0
Maui	63	18	2.3	22.9	1.7	3.6

County	Production workers--con.	Value added by manufacture (millions of dollars)	Cost of materials 1/ (millions of dollars)	Value of shipments 1/ (millions of dollars)	New capital expenditures (millions of dollars)
	Wages (millions of dollars)				
State total .	160.3	790.9	1,173.4	1,976.8	53.0
Honolulu	117.0	591.2	982.3	1,584.8	33.2
Hawaii	22.0	83.0	73.8	157.7	12.3
Kauai	5.6	25.4	44.9	70.3	2.6
Maui	15.6	91.3	72.4	164.0	4.9

Note: Payroll and shipments data for small establishments--typically single-unit companies with less than 20 employees (cutoff varied by industry)--were obtained from administrative records of other government agencies instead of from census report forms. These data were then used in conjunction with industry averages to estimate the other items in the table for these small establishments. This technique was also used for a few other establishments whose reports were not received at time data were tabulated.

1/ Aggregate of cost of materials and value of shipments figures for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others.

Source follows next table.

Table 443.-- MANUFACTURES, BY INDUSTRY GROUPS AND SELECTED INDUSTRIES: 1977

1972 SIC code	Industry group and industry 1/	All establishments		All employees		Production workers	
		Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (millions of dollars)	Number (1,000)	Hours (millions)
	All industries	946	231	25.1	276.4	17.2	31.3
20	Food and kindred products	217	62	10.8	112.6	8.0	14.9
202	Dairy products	11	5	0.5	7.5	0.2	0.4
203	Preserved fruits and vegetables	38	6	3.6	28.0	3.2	5.4
2033	Canned fruits and vegetables	12	5	3.4	26.2	3.0	5.1
205	Bakery products	24	7	0.8	9.8	0.4	0.8
2051	Bread, cake, and related products .	20	6	0.7	9.1	0.4	0.7
206	Sugar, confectionery products ...	34	20	3.8	44.4	2.8	5.8
2061	Raw cane sugar	15	14	3.3	39.5	2.4	5.1
208	Beverages	17	6	0.5	7.1	0.2	0.4
209	Misc. foods, kindred products ...	66	7	1.1	8.8	0.8	1.3
23	Apparel, other textile products	157	55	3.8	25.1	3.2	5.3
232	Men's and boys' furnishings	30	11	0.7	4.5	0.6	1.1
233	Women's and misses' outerwear ...	89	33	2.5	16.3	2.1	3.4
25	Furniture and fixtures	30	6	0.7	6.3	0.3	0.6
251	Household furniture	18	5	0.6	5.3	0.3	0.5
27	Printing and publishing	157	27	2.5	34.9	1.3	2.1
2711	Newspapers	25	12	1.5	21.0	0.6	0.9
275	Commercial printing	84	7	0.6	7.7	0.4	0.7
28	Chemicals and allied products .	23	6	0.5	5.4	0.3	0.5
34	Fabricated metal products	36	9	0.8	10.8	0.7	1.3
37	Transportation equipment	21	4	0.6	10.8	0.5	1.0
373	Ship, boat building, repairing ..	16	4	0.6	10.5	0.5	1.0
39	Misc. manufacturing industries	83	11	1.2	7.1	0.9	1.4
	Central admin. offices, auxiliaries	22	9	1.4	22.9	-	-

Continued on next page.

Table 443.-- MANUFACTURES BY INDUSTRY GROUPS AND SELECTED INDUSTRIES: 1977 - Con.

1972 SIC code	Industry group and industry 1/	Production workers - con.	Value added by manufacture (millions of dollars)	Cost of materials 2/ (millions of dollars)	Value of shipments 2/ (millions of dollars)	New capital expenditures (millions of dollars)
		Wages (millions of dollars)				
	All industries	160.3	790.9	1,173.4	1,976.8	53.0
20	Food and kindred products	73.0	349.2	448.2	796.9	25.8
202	Dairy products	3.0	20.3	41.1	61.4	1.2
203	Preserved fruits and vegetables .	22.3	91.7	96.5	188.1	1.5
2033	Canned fruits and vegetables	21.0	87.1	89.8	176.9	1.2
205	Bakery products	5.0	20.6	13.3	33.8	0.6
2051	Bread, cake and related products ..	4.6	18.2	11.0	29.1	0.5
206	Sugar, confectionery products ...	31.1	159.8	165.3	325.2	18.3
2061	Raw cane sugar	27.9	145.0	141.2	286.2	17.8
208	Beverages	2.4	21.1	30.6	51.4	2.1
209	Misc. foods, kindred products ...	5.1	19.0	32.9	51.7	0.9
23	Apparel, other textile products	16.7	45.5	33.2	78.4	(D)
232	Men's and boys' furnishings	3.2	7.6	6.5	14.1	(D)
233	Women's and misses' outerwear ...	10.5	27.5	20.0	47.4	(D)
25	Furniture and fixtures	2.7	17.4	6.8	23.8	(D)
251	Household furniture	2.0	15.8	5.4	20.8	(D)
27	Printing and publishing	16.8	94.4	30.0	124.2	10.3
2711	Newspapers	8.2	67.2	15.5	82.7	(D)
275	Commercial printing	5.2	14.5	9.1	23.5	(D)
28	Chemicals and allied products .	2.5	17.7	31.7	49.9	1.4
34	Fabricated metal products	8.2	22.8	52.9	77.0	3.4
37	Transportation equipment	9.3	17.0	13.3	30.2	(D)
373	Ship, boat building, repairing ..	9.1	16.4	12.5	28.8	(D)
39	Misc. manufacturing industries	4.0	14.0	13.0	26.7	0.3
	Central admin. offices, auxiliaries	-	-	-	-	-

Footnotes and source on next page.

Table 443. -- MANUFACTURES, BY INDUSTRY GROUPS AND SELECTED INDUSTRIES: 1977 -- Con.

Note: Payroll and shipments data for small establishments -- typically single-unit companies with less than 20 employees (cutoff varied by industry) -- were obtained from administrative records of other government agencies instead of from census report forms. These data were then used in conjunction with industry averages to estimate the other items in the table for these small establishments. This technique was also used for a few other establishments whose reports were not received at time data were tabulated.

(D) Withheld to avoid disclosing operations of individual companies.

1/ Statistics for some industry groups and industries have been withheld to avoid disclosing operations of individual companies and to permit further verification of data for smaller industries. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

2/ Aggregate of cost of materials and value of shipments figures for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by other.

Source: U.S. Bureau of the Census, 1977 Census of Manufactures, Geographic Area Series, Preliminary Report, Hawaii, MC77-A-12(P), August 1979.

Table 444.-- MANUFACTURING EMPLOYMENT AND VALUE ADDED BY MANUFACTURE, FOR SELECTED INDUSTRY GROUPS: 1972 AND 1977

1972 SIC code	Industry group and industry	All employees (1,000)		Value added by manufacture (million dollars)	
		1972	1977	1972	1977
	All industries	24.8	25.1	410.0	790.9
20	Food and kindred products	11.9	10.8	215.4	349.2
2033	Canned fruits, vegetables	4.8	3.4	69.0	87.1
205	Bakery products	.7	.8	11.4	20.6
206	Sugar, confectionary products ..	3.8	3.8	76.7	159.8
2061	Raw cane sugar	3.4	3.3	67.1	145.0
23	Apparel, other textile products ..	3.3	3.8	29.6	45.5
25	Furniture and fixtures	.7	.7	7.9	17.4
27	Printing and publishing	2.5	2.5	46.2	94.4
37	Transportation equipment	.2	.6	2.7	17.0

Source: U. S. Bureau of the Census, 1977 Census of Manufactures, Preliminary Report, Hawaii, MC77-A-12(P), August 1979.

Table 445.-- MANUFACTURING LABOR COSTS, CAPITAL EXPENDITURES, ASSETS, AND RENTAL PAYMENTS: 1975 AND 1976

[In millions of dollars.]

Item	1975	1976
Labor costs, total	272.1	308.0
Payroll	236.7	266.4
Social security and other required payments	16.8	20.1
Employer payments for other programs	18.5	21.5
Expenditures for new plant and equipment, total	51.5	55.6
New structures and additions to plant	12.8	15.0
New machinery and equipment	38.7	40.6
Gross book value of depreciable assets, end of year, total	673.7	709.0
Structures and building	227.4	243.6
Machinery and equipment	446.2	465.3
Rental payments, total	15.3	17.5
Structures and building	9.0	11.0
Machinery and equipment	6.3	6.5

Source: U.S. Bureau of the Census, Annual Survey of Manufactures, 1976, M76(AS)-6, p. 228.

Table 446.-- GENERAL EXCISE TAX BASE FOR SUGAR PROCESSING, PINEAPPLE CANNING, AND MANUFACTURING: 1969 TO 1979

(In thousands of dollars)

Year reported 1/	Total	Sugar processing	Pineapple canning	Manufacturing 2/
1969	592,692	196,744	116,466	279,482
1970	575,222	175,337	114,634	285,251
1971	599,686	190,209	124,548	284,929
1972	638,059	205,962	124,265	307,833
1973	692,715	213,095	123,597	356,023
1974	934,613	454,660	103,686	376,268
1975	1,166,923	605,521	131,655	429,748
1976	783,751	275,078	95,488	413,186
1977 3/ ...	862,412	284,000	111,942	466,470
1978 3/ ...	917,163	291,000	131,665	494,498
1979	1,035,159	305,738	164,200	565,221

1/ Calendar year in which reported, including "prior years" reports. Income received in December is reported the following January and hence these annual totals generally refer to an "income year" ended June 30.

2/ Excludes sugar processing, pineapple canning, and petroleum refining.

3/ Partly estimated.

Source: Hawaii State Department of Taxation, "General Excise and Use Tax Base" (annual tabular release).

Table 447.-- PINEAPPLE CANNERIES, BY ISLANDS: 1969 TO 1979

(As of the end of the canning season.)

Year	State total	Maui	Oahu	Kauai
1969	6	2	3	1
1970	4	1	2	1
1971	4	1	2	1
1972	4	1	2	1
1973	3	1	2	-
1974	3	1	2	-
1975	3	1	2	-
1976	3	1	2	-
1977	3	1	2	-
1978	3	1	2	-
1979	3	1	2	-

Source: The Pineapple Growers Association of Hawaii, records; First Hawaiian Bank, Research Division, records.

Table 448.-- EMPLOYMENT AND EARNINGS IN THE PINEAPPLE INDUSTRY: 1970 TO 1979

(Includes field and cannery employment and earnings.)

Year	Full-time equivalent employment	Total wages and salaries (dollars)	Earnings per full-time equivalent employee (dollars)
1970 ...	7,779	52,580,858	6,759
1971 ...	7,403	51,194,731	6,915
1972 ...	7,110	48,376,978	6,804
1973 ...	5,759	42,613,741	7,400
1974 ...	4,894	37,764,230	7,716
1975 ...	4,915	42,137,633	8,573
1976 ...	4,657	44,918,405	9,645
1977 ...	4,924	52,413,689	10,645
1978 ...	4,953	55,397,760	11,185
1979 ...	4,979	61,751,124	12,402

Source: Hawaii Employers Council, unpublished estimates.

Table 449.-- HAWAIIAN PINEAPPLE PRODUCTION: 1968-69 TO 1979

(Hawaiian pack only; excludes overseas production by Hawaiian companies.)

Year 1/	Canned fruit		Canned juice		Frozen concentrate	
	1,000 actual cases	1,000 standard cases 2/	1,000 actual cases	1,000 standard cases 3/	1,000 equivalent 6/10 cases	1,000 standard cases 3/
1968-1969 ..	17,728	12,116	10,930	8,600	692	633
1969-1970 ..	16,971	11,596	11,814	9,000	731	669
1970-1971 ..	17,718	12,028	10,590	8,100	1,016	929
1971-1972 ..	17,961	12,537	11,004	8,400	789	722
1972-1973 ..	15,891	11,108	9,282	7,400	633	580
1973-1974 ..	14,042	9,550	8,470	6,600	886	810
1974-1975 ..	11,584	8,110	5,643	4,400	438	400
1975-1976 ..	12,142	8,200	6,173	4,800	471	520
1976-1977 ..	12,160	8,270	7,295	5,600	346	320
1977-1978 ..	12,482	8,490	8,403	5,750	294	270
1978-1979 ..	11,142	7,620	7,386	5,760	290	265
1979	10,930	7,470	7,699	6,010	308	280

1/ Pack year ended May 31 through 1978-1979 and calendar year 1979.

2/ 24 #2 1/2 can, 45-lb. cases.

3/ 24 #2 1/2 can, 42 1/2-lb. cases.

Source: The Pineapple Growers Association of Hawaii, Pineapple Fact Book/Hawaii 1973 (January 1973), p. 18, and records; Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture (annual), and records.

Table 450.-- SUGAR COMPANIES AND MILLS, BY ISLANDS: 1969 TO 1979

Year (as of Dec. 31)	State total	Hawaii	Maui	Oahu	Kauai
Companies:					
1969	24	10	3	4	7
1970	23	10	3	3	7
1971	23	10	3	3	7
1972	21	10	3	2	6
1973	19	8	3	2	6
1974	17	7	3	2	5
1975	16	6	3	2	5
1976	15	5	3	2	5
1977	15	5	3	2	5
1978	14	4	3	2	5
1979	14	4	3	2	5
Mills:					
1969	26	12	4	4	6
1970	26	12	4	4	6
1971	26	12	4	4	6
1972	23	12	4	2	5
1973	21	10	4	2	5
1974	20	9	4	2	5
1975	17	7	4	2	4
1976	17	7	4	2	4
1977	16	6	4	2	4
1978 (revised)	14	5	3	2	4
1979	14	5	3	2	4

Source: Hawaiian Sugar Planters' Association, records.

Table 451.-- SUGAR AND MOLASSES PRODUCTION: 1969 TO 1979

Year	Cane land (acres)		Cane used for sugar (short tons)	Sugar produced (short tons)		Molasses produced (short tons)
	Total area	Harvested area		96° raw value	Equivalent refined	
1969 ...	242,216	113,232	10,839,272	1,182,414	1,105,060	340,330
1970 ...	238,997	113,816	10,457,377	1,162,071	1,086,000	322,480
1971 ...	232,278	115,810	10,685,019	1,229,976	1,149,510	330,227
1972 ...	229,611	108,456	9,929,068	1,118,883	1,045,708	307,543
1973 ...	226,580	108,189	9,645,452	1,128,529	1,054,723	301,500
1974 ...	224,227	95,826	9,082,684	1,040,742	972,677	293,380
1975 ...	221,426	105,125	9,485,299	1,107,199	1,034,788	301,335
1976 ...	221,551	99,926	9,172,649	1,050,457	981,757	275,352
1977 ...	220,729	96,770	8,994,388	1,033,739	966,132	284,349
1978 ...	220,697	99,355	9,263,190	1,028,933	961,641	310,238
1979 ...	218,773	100,611	9,632,135	1,059,737	990,430	325,831

Source: Hawaiian Sugar Planters' Association, HSPA Sugar Manual 1979, pp. 10-11, and information supplied June 6, 1980.

Table 452.-- AVERAGE RAW SUGAR PRICE AND SUGAR INDUSTRY EMPLOYMENT AND EARNINGS: 1969 TO 1979

Year	Average raw sugar price 1/ (cents per lb.)	Hourly-rated employees		Industry wide strikes (weeks)	Average daily earnings 2/ (dollars)	
		Average number 3/	Total man-days		Wages	Employee benefits
1969 ...	7.75	9,213	2,066,244	5	23.26	9.76
1970 ...	8.08	8,908	2,139,183	-	24.24	10.00
1971 ...	8.52	8,610	2,077,011	-	26.08	10.27
1972 ...	9.10	8,127	1,934,563	-	29.09	11.23
1973 ...	10.30	7,900	1,897,369	-	30.86	12.48
1974 ...	29.43	7,700	1,744,346	6	34.41	15.81
1975 ...	22.49	7,800	1,937,973	-	37.34	15.66
1976 ...	13.31	7,500	1,854,272	-	43.12	17.28
1977 ...	11.11	7,200	1,660,298	3	43.92	19.97
1978 ...	13.74	7,200	1,771,530	-	47.06	21.28
1979 ...	15.20	7,065	1,762,838	-	50.49	22.21

1/ Average New York raw sugar price computed over all the days of the year (Hawaiian basis). The New York spot price was discontinued November 2, 1977; figures since then are based on Clearing Association settlement prices.

2/ For non-supervisory employees.

3/ Adults only.

Source: Hawaiian Sugar Planters' Association, HSPA Sugar Manual (annual, 1970-1979), as revised, and information supplied June 6, 1980.

Table 453.-- VALUE OF SALES AND GOVERNMENT PAYMENTS FOR PINEAPPLE AND SUGAR PRODUCTION: 1969 TO 1979

(Calendar year data unless otherwise specified.)

Year	Pineapple ($1,000,000)		Sugar ($1,000)		
			Value of production 3/		
	Canned fruit and juices 1/	Fresh market sales 2/	Raw sugar 96°	Commercial molasses	Government payments
1969 ..	123.0	2.4	171,498	7,501	10,463
1970 ..	135.0	3.6	180,680	7,061	10,261
1971 ..	137.7	3.7	196,253	6,669	10,722
1972 ..	140.5	4.9	176,550	8,052	9,667
1973 ..	135.0	7.4	203,788	18,370	9,510
1974 ..	118.2	8.9	659,227	17,390	8,646
1975 ..	126.6	10.1	354,600	11,500	-
1976 ..	130.0	14.5	245,500	11,500	-
1977 ..	140.0	21.6	219,100	7,700	48,700
1978 ..	128.0	29.4	269,500	15,700	8,100
1979 ..	160.0	30.2	322,200	23,500	-

1/ Value of canned fruit and juices and by products shipped out-of-State and sold within State. Prior to 1979, data are for pack years beginning June 1.

2/ Value FAS shipping point for outshipments, delivered wholesalers local sales.

3/ Beginning with 1972, point of delivery changed from refinery to mill.

Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture (annual) and records.

Section 23

DOMESTIC TRADE AND SERVICES

This section presents statistics relating to retail and wholesale trade; hotels; and selected personal, business, automotive, repair, and amusement services.

These activities have undergone rapid growth in recent decades, in part because of higher prices. Retail sales increased from $1.1 billion in 1967 to $1.9 billion in 1972 and $3.3 billion in 1977. Wholesale sales rose from $1.0 billion in 1967 to $2.6 billion in 1977. Hotels, amusements, and other services reported receipts of $1.3 billion in 1977, compared with $310 million in 1967. General excise and use tax base data for more recent years indicate continued increases; between 1977 and 1979, the retailing tax base rose 31 percent, the wholesaling base by 41 percent, and the base for services by 29 percent. Major retail concentrations include Ala Moana Center, Waikiki, Pearlridge Center, and downtown Honolulu. The 19 department stores on Oahu reported sales of $404 million in 1979. In addition to civilian retail outlets, there are 81 commissaries, exchanges, clubs, and food services maintained by the armed forces; these facilities had sales of $267 million in 1979.

Growth has been especially rapid for hotels. The number of units in the State rose from 6,800 in 1959 to 27,500 in mid-1970 and 54,200 in February 1980. There were 387 hotels, motels and apartment-hotels in the State on the latter date, including 227 on the Neighbor Islands. Occupancy rates averaged 77.1 percent in Waikiki and 70.2 percent on the Neighbor Islands during 1979. The average daily room rate was $44.41 in 1979. The hotel payroll in 1978 totaled $196 million, compared with $47 million ten years earlier.

Fifty-four feature motion pictures and television specials and series were filmed in Hawaii in 1979, accounting for local expenditures of $35 million.

The major source of these data is the United State Census of Business, most recently conducted at the end of 1977. Statistics on the retailing, wholesaling, and services tax bases are available from the Hawaii State Department of Taxation. Data on hotel room counts, occupancy and other characteristics are published by the Hawaii Visitors Bureau and the firm of Pannell Kerr Forster . The Hawaii Film Office in the Department of Planning and Economic Development compiles data on motion picture and television production. A summary of figures on trade and services in earlier years appears in Historical Statistics of Hawaii, Section 20. The Statistical Abstract of the United States: 1979, Section 30, presents similar data for other states and the nation as a whole.

Table 454.-- RETAIL TRADE, WHOLESALE TRADE, AND SELECTED SERVICES: 1963 TO 1977

Year	Retail trade		Wholesale trade		Selected services	
	Establishments	Sales ($1,000)	Establishments	Sales ($1,000)	Establishments	Receipts ($1,000)
1963	4,578	751,411	974	735,205	3,431	163,094
1967	5,212	1,083,458	1,030	1,013,813	4,057	310,290
1972 (1967 def.)	6,416	1,881,516	1,311	1,511,398	5,570	583,289
1972 (1972 def.)	6,392	1,864,985	1,336	1,538,429	6,348	683,201
1972 (1977 def.)	5,880	1,859,929	1,337	1,561,654	6,348	664,857
1977	7,388	3,294,118	1,569	2,571,489	8,[illegible]3	1,276,163

Source: Robert C. Schmitt, Historical Statistics of Hawaii (University Press of Hawaii, 1977), pp. 513, 524, and 526. U.S. Bureau of the Census, 1977 Census of Retail Trade, RC77-A-12, table 2; 1977 Census of Wholesale Trade, WC77-A-12, table 2; and 1977 Census of Service Industries, SC77-A-12, table 2.

Table 455.-- GENERAL EXCISE TAX BASE FOR TRADE AND SERVICE ACTIVITIES: 1969 TO 1979

(In thousands of dollars)

Year reported 1/	Retailing	Services 2/	Theater, amusement, broadcasting, etc.	Wholesaling
1969	1,670,288	451,814	39,220	747,204
1970	1,895,089	504,191	43,588	854,660
1971	2,030,170	523,824	48,503	918,425
1972	2,213,704	578,260	53,108	1,002,214
1973	2,560,799	697,419	60,079	1,220,818
1974	2,959,201	783,771	66,557	1,374,819
1975	3,382,804	919,912	74,561	1,527,057
1976	3,724,487	978,091	82,134	1,721,874
1977 3/ ...	4,222,169	1,095,066	92,827	1,989,981
1978 3/ ...	4,774,076	1,222,996	104,085	2,158,707
1979	5,519,889	1,412,195	109,143	2,800,951

1/ Calendar year in which reported, including "prior years" reports. Income received in December is reported the following January, hence these annual totals generally refer to an "income year" ended November 30.

2/ Includes both business and professional services but excludes hotels, theater, amusement, broadcasting, and intermediary services.

3/ Partly estimated.

Source: Hawaii State Department of Taxation, "General Excise and Use Tax Base" (annual tabular release).

Table 456.-- CHARACTERISTICS OF RETAIL TRADE, WHOLESALE TRADE, AND SELECTED SERVICE INDUSTRIES: 1977

Subject	Retail trade	Wholesale trade	Selected services 1/
All establishments:			
Number	7,388	1,569	8,023
Sales ($1,000)	3,294,118	2,571,489	...
Receipts ($1,000)	...	...	1,276,163
Inventories, Dec. 31 ($1,000)	...	248,195	...
Operating expenses ($1,000)	...	375,803	...
Unincorporated businesses (number):			
Sole proprietorships	3,120	...	5,540
Partnerships	516	...	456
Establishments with payroll:			
Number	5,273	...	3,306
Sales ($1,000)	3,222,715	...	...
Receipts ($1,000)	...	...	1,216,214
Payroll ($1,000):			
Entire year	460,322	177,556	389,691
First quarter	111,143	43,517	94,434
Paid employees, week incl. March 12	72,098	14,695	49,438

1/ Includes hotels; personal services; business services; automotive repair, services, and garages; miscellaneous repair services; amusement and recreation services, including motion pictures; dental laboratories; legal services; and engineering, architectural, and surveying services.

Source: U.S. Bureau of the Census, 1977 Census of Retail Trade, RC77-A-12, table 1; 1977 Census of Wholesale Trade, WC77-A-12, table 1, as corrected; and 1977 Census of Service Industries, SC77-A-12, table 1.

Table 457.-- RETAIL TRADE, BY KIND OF BUSINESS: 1977

Kind of business	Number of establishments	Sales ($1,000)
Retail trade	7,388	3,294,118
Building materials, hardware, garden supply, and mobile home dealers	194	74,462
General merchandise group stores	259	631,505
Food store	876	651,259
Automotive dealers	291	457,429
Gasoline service stations	415	176,079
Apparel and accessory stores	733	204,037
Furniture, home furnishings, and equipment stores	444	102,188
Eating and drinking places	1,657	484,098
Drug and proprietary stores	115	174,155
Miscellaneous retail stores	2,404	338,906

Source: U.S. Bureau of the Census, 1977 Census of Retail Trade, RC 77-A-12, table 1.

Table 458.-- RETAIL TRADE OF COUNTIES AND URBAN PLACES: 1977

County or urban place	Number of establishments	Sales ($1,000)
State total	7,388	3,294,118
Hawaii County	846	275,938
Hilo	416	183,782
Remainder of county	430	92,156
Honolulu County	5,367	2,604,207
Aiea	165	82,668
Ewa Beach	44	8,460
Foster Village	22	2,329
Haleiwa	52	14,465
Honolulu	3,921	1,905,160
Kailua	213	96,645
Kaneohe	186	94,527
Laie	11	2,412
Maunawili	10	374
Pearl City	71	50,077
Wahiawa	139	42,517
Waialua	15	1,586
Waianae	33	18,802
Waimalu	15	5,592
Waipahu	147	101,706
Remainder of county	323	176,887
Kauai County	433	126,399
Kapaa	115	23,962
Lihue	136	63,489
Remainder of county	182	38,948
Maui County	742	287,574
Island of Lanai	13	2,600
Island of Molokai	39	9,626
Kahului	152	111,635
Lahaina	239	72,741
Wailuku	129	45,459
Remainder of county	170	45,513

Source: U.S. Bureau of the Census, 1977 Census of Retail Trade, RC77-A-12, table 7.

Table 459.-- MERCHANDISE LINE SALES OF RETAIL ESTABLISHMENTS: 1972

[Excludes establishments without payroll]

Merchandise line	Number of establishments		Sales of specified merchandise line ($1,000)	
	State total	Oahu	State total	Oahu
All lines, total 1/	4,491	3,303	1,832,909	1,486,986
Groceries and other foods	858	562	362,374	277,935
Meals and snacks	1,278	956	210,659	176,235
Alcoholic drinks	565	420	53,361	44,770
Packaged alcoholic beverages	412	251	39,022	30,027
Cigars, cigarettes and tobacco	590	359	17,161	14,315
Drugs and other health aids	362	210	53,439	44,761
Toiletries	449	266	17,419	13,456
Men's, boys' clothing, exc. footwear	496	305	69,018	57,899
Women's, girls' clothing, exc. footwear	635	409	110,934	94,409
Footwear exc. infants and toddlers	344	205	29,787	25,774
Curtains, draperies, and dry goods	327	187	42,209	35,464
Major household appliances	179	105	31,361	22,493
Radios, TV's, musical instruments	284	167	38,088	32,462
Furniture and sleep equipment	188	133	33,160	27,471
Floor coverings	147	102	11,821	9,328
Kitchenware and home furnishings	438	288	32,763	28,460
Jewelry and optical goods	542	382	50,991	44,429
Sporting and recreational equipment	194	119	30,122	26,510
Hardware and electrical supplies	204	106	14,346	11,356
Lawn and garden supplies	269	177	19,659	16,320
Lumber and building materials	125	74	30,788	23,192
Automobiles and trucks	117	86	194,360	154,921
Auto fuels and lubricants	543	378	91,333	72,359
Auto tires, batteries, accessories	562	388	58,045	44,940
Household fuels and ice	21	11	13,278	10,056
All other merchandise	976	664	93,655	77,775
Nonmerchandise receipts	1,958	1,416	83,731	69,869
Miscellaneous merchandise	(X)	-	25	-

X Not applicable.

Source: U.S. Bureau of the Census, Census of Retail Trade: 1972, Retail Merchandise Lines, Hawaii (unpublished tabulation filed in Hawaii Department of Planning and Economic Development Library).

Table 460.-- DEPARTMENT STORES, FOR THE STATE, OAHU, AND HONOLULU: 1948 TO 1979

Year	Number of stores, Dec.			Sales 1/ ($1,000)		
	State total	Oahu	Honolulu 2/	State total	Oahu	Honolulu 2/
1948	2	2	2	(D)	(D)	(D)
1954	4	4	2	(D)	(D)	(D)
1958	7	7	5	30,629	30,629	(D)
1963	13	13	7	71,776	71,776	63,021
1967	15	15	10	131,843	131,843	122,260
1972	19	15	10	215,428	205,619	167,758
1977	23	19	12	375,943	354,087	251,219
1978 3/ ..	...	19	...	...	373,774	...
1979 3/ ..	...	19	...	...	403,663	...

D Withheld to avoid disclosing data for individual companies.

1/ Data after 1972 exclude sales taxes and finance charges.

2/ Area southwest of the crest of the Koolau Mts., between Red Hill and Makapuu Pt.

3/ Survey data, limited to Oahu.

Source: U.S. Bureau of the Census, *U.S. Census of Business: 1948*, Bull. No. 1-RWS-51; *U.S. Census of Business: 1954*, Bull. R-1-52 and CBD-47; *U.S. Census of Business: 1958*, BC58-RA52 and BC58-CBD36; *U.S. Census of Business: 1963*, BC63-RA13 and BC63-MRC-43; *U.S. Census of Business, 1967*, BC67-RA13 and BC67-MRC-12; *Census of Retail Trade, 1972*, RC72-A-12 and RC72-C-12; *1977 Census of Retail Trade*, RC77-A-12 and RC77-C-12; *Current Business Reports*, *Monthly Department Store Sales in Selected Areas*, BD-80-1, January 1980.

Table 461.-- ALA MOANA CENTER STATISTICAL SUMMARY: 1959 TO 1979

(All figures except sales are as of December 31.)

Year	Number of stores	Retail floor space (1,000 sq. ft.)	Annual sales ($1,000)	Parking spaces	Land area (acres)
1959 1/ ..	87	655.0	15,361	4,000	50
1960	87	677.0	39,474	4,000	50
1961	87	677.0	45,923	4,000	50
1962	87	677.0	50,200	4,000	50
1963	87	689.8	52,750	4,000	50
1964	87	692.6	59,471	4,000	50
1965	87	680.4	65,471	4,000	50
1966	155	1,351.5	87,655	7,800	50
1967	155	1,351.5	108,953	7,800	50
1968	155	1,352.3	127,223	7,800	50
1969	155	1,352.8	149,702	7,800	50
1970	155	1,364.7	167,970	7,800	50
1971	155	1,368.9	179,989	7,800	50
1972	155	1,370.7	193,670	7,800	50
1973	155	1,371.0	214,141	7,800	50
1974	155	1,382.2	227,731	7,800	50
1975	155	1,382.8	237,985	7,800	50
1976	155	1,383.1	261,160	7,800	50
1977	155	1,433.8	285,752	7,800	50
1978	155	1,434.7	325,564	7,800	50
1979	155	1,435.4	351,504	7,800	50

1/ Earliest year available. Construction of Ala Moana Center was begun in March 1958. The Center was formally opened October 29, 1959.

Source: Ala Moana Center, information supplied July 29, 1980.

Table 462.-- CHARACTERISTICS OF SELECTED SHOPPING CENTERS: 1979

Island and name of center	Location	Year opened	Site area (acres)	Building area (1,000 square feet)	Parking spaces	Number of stores
Oahu: 1/						
Ala Moana Center ...	Honolulu	1958	50	1,400	7,800	155
Kahala Mall	Honolulu	1954	22	370	1,500	60
Pearl City S. C. ...	Pearl City	1965	15	249	900	36
Pearlridge Center ..	Aiea	1972	59	1,200	4,950	140
Waikiki Shopping Plaza	Honolulu	1977	1.1	300	300	50
Hawaii: 2/						
Kaiko'o Mall S. C. .	Hilo	1970	14	220	950	33
Maui: 2/						
Kaahumanu Center ...	Kahului	1973	25	254	1,409	50
Kahului S. C.	Kahului	1951	17	104	1,000	30
Maui Mall	Kahului	1971	27	203	1,250	40
Kauai: 2/						
Lihue S. C.	Lihue	1966	9	142	551	24

1/ Includes centers with more than 200,000 square feet of building area.

2/ Includes centers with more than 100,000 square feet of building area.

Source: Chamber of Commerce of Hawaii, Shopping Centers in Hawaii (November 1979).

Table 463.-- MAJOR RETAIL CENTERS, FOR OAHU: 1967 TO 1977

Retail center	1977			1972: retail sales ($1,000)	1967: retail sales ($1,000)
	Number of retail stores	Retail sales ($1,000)	Paid retail employees 1/		
Oahu, total	5,262	2,574,973	57,584	1,489,602	899,741
Honolulu CBD 2/	485	122,873	3,748	65,471	55,138
Ala Moana Center 3/.	187	307,498	7,017	218,844	122,051
Waikiki 4/	646	307,233	7,626	169,084	84,005
Kahala Mall 5/	55	47,407	1,107	41,625	15,984
Pearlridge Center 6/	102	118,867	2,794	18,606	...

1/ For week including March 12.

2/ The Honolulu Central Business District in 1977 consisted of the area bounded by Nuuanu Stream, School Street, Queen Emma Street, Beretania Street, Richards Street, Halekauwila Street, Nimitz Highway, Nuuanu Avenue extended, and Honolulu Harbor. That part of the 1977 CBD between Beretania and School Streets was excluded in earlier years. Based on the previous definition, the Honolulu CBD had 415 establishments and $94,811,000 in retail sales in 1977. The area added between 1972 and 1977 had 70 establishments and $28,062,000 in sales in 1977.

3/ The area bounded by Kapiolani Blvd., Mahukona Street, Atkinson Drive, Ala Moana, and Piikoi Street.

4/ The area bounded by the Ala Wai Canal, Kapahulu Avenue, and the ocean.

5/ Kahala Mall plus retail establishments on Waialae Avenue from Hunakai Street to Kilauea Avenue.

6/ The area bounded by Moanalua Road, Pali Momi Street, Kamehameha Highway, and Kaonohi Street. Opened 1972.

Source: U.S. Bureau of the Census, 1967 Census of Business, BC67-MRC 12, as corrected, 1972 Census of Retail Trade, RC72-C-12; 1977 Census of Retail Trade, RC-77-C-12, and underlying tabulations provided July 24, 1980.

Table 464.-- SHOPPING CENTERS: 1970 TO 1977

Year (Dec. 31)	Number of stores			Gross leasable area (1,000 square feet)		
	State total	Oahu	Other islands	State total	Oahu	Other islands
1970	938	739	199	4,742	3,999	743
1971	970	743	227	4,987	4,201	786
1972	1,212	931	281	5,789	4,837	953
1973	1,622	1,166	456	6,710	5,243	1,467
1974	1,786	1,284	502	7,640	6,115	1,525
1975	2,033	1,446	587	8,287	6,620	1,667
1976	2,132	1,467	665	8,424	6,711	1,713
1977	2,238	1,573	665	8,805	7,092	1,713

Source: Bank of Hawaii, Hawaii 79 (August 1979), p. 33.

Table 465.-- ANNUAL SALES OF RETAIL FACILITIES OPERATED BY THE ARMED FORCES: 1978 AND 1979

Type of facility	Locations		Annual sales ($1,000)	
	1978	1979	1978	1979
Total	78	81	261,462	266,555
Commissaries	6	6	77,034	83,595
Exchanges	20	20	149,493	150,159
Clubs 1/	36	38	22,930	24,554
Food service 1/	16	17	12,006	8,248

1/ Army food service sales in 1979 included with clubs.

Source: Hawaii State Department of Planning and Economic Development, Retail Sales by the Armed Forces, 1979 (Statistical Report 135, March 11, 1980), table 2.

Table 466.-- GROSS REVENUES OF SELECTED MAJOR RETAILERS IN HAWAII: 1976 TO 1978

[In thousands of dollars. Figures may include revenues from such activities as financial services and automotive repairs.]

Company	1978	1977	1976
Duty Free Shoppers, Ltd. 1/	137,000	120,596	108,160
Liberty House, Inc.	127,576	110,318	96,651
Foodland Super Market, Ltd.	(NA)	100,977	93,111
Sears, Roebuck and Co.	105,849	96,448	84,168
Longs Drug Stores, Ltd.	105,020	93,565	86,479
Servco Pacific, Inc.	87,731	74,570	65,747
Times Super Market, Ltd.	79,119	71,752	63,645
Safeway Stores, Inc.	(NA)	60,789	54,635
Star Markets, Ltd.	62,621	57,674	50,964
J.C. Penney Co., Inc.	51,677	45,961	46,122
F.W. Woolworth Co.	37,346	32,880	26,550
Schuman Carriage Co., Ltd.	30,376	30,208	23,178
Pflueger Lincoln-Mercury	26,402	20,261	15,632
Universal Motor Co., Ltd.	26,019	25,178	24,005
Holiday Mart, Inc.	(NA)	26,749	37,648
Aloha Motors, Inc.	25,419	27,603	26,000
Spencecliff Corp.	24,120	27,099	25,484
Boise Cascade Corp. (Hopaco)	22,144	19,951	18,433
MNS, Ltd. (ABC Stores)	19,781	17,486	14,208
Shirokiya, Inc.	17,570	15,228	13,206

NA Not available.

1/ Estimated for 1978.

Source: Hawaii Business Publishing Corporation, Hawaii Business, Vol. 25, No. 6, December 1979, p. 22, and Vol. 24, No. 6, December 1978, p. 25.

Table 467.-- WHOLESALE TRADE, BY TYPE OF OPERATION AND KIND OF BUSINESS: 1977

Type of operation and kind of business	Number of establishments	Sales ($1,000)
Wholesale trade	1,569	2,571,489
Type of operation:		
Merchant wholesalers	1,261	1,430,527
Manufacturers' sales branches and offices	166	902,959
Agents, brokers, and commission merchants	142	238,003
Kind of business:		
Motor vehicles and automotive parts and supplies	93	121,496
Furniture and home furnishings	53	45,388
Lumber and other construction materials	80	122,909
Sporting, recreational, photo, and hobby goods, toys and supplies	42	40,235
Metals and minerals, except petroleum	16	22,006
Electrical goods	100	182,752
Hardware, and plumbing and heating equipment and supplies	72	59,444
Machinery, equipment, and supplies	237	230,427
Miscellaneous durable goods	99	53,322
Paper and paper products	61	67,270
Drugs, drug proprietaries, and druggists' sundries	42	47,513
Apparel, piece goods, and notions	71	58,661
Groceries and related products	310	696,494
Farm-product raw materials	6	2,603
Chemicals and allied products	25	31,354
Petroleum and petroleum products	43	506,337
Beer, wines, and distilled alcoholic beverages	31	130,745
Miscellaneous nondurable goods	188	152,533

Source: U.S. Bureau of the Census, 1977 Census of Wholesale Trade, WC77-A-12, table 1.

Table 468.-- WHOLESALE TRADE OF COUNTIES AND URBAN PLACES: 1977

County and urban places	Number of establishments	Sales ($1,000)
State total	1,569	2,571,489
Hawaii County	148	185,159
Hilo	114	159,370
Remainder of county	34	25,789
Honolulu County	1,277	2,166,760
Honolulu	1,141	1,990,955
Kailua...................	21	22,173
Kaneohe	20	10,039
Pearl City	10	23,970
Waipahu	23	51,206
Remainder of county	62	68,417
Kauai County	49	58,848
Lihue	29	31,989
Remainder of county	20	26,859
Maui County	95	160,722
Island of Lanai	2	(D)
Island of Molokai	5	(D)
Kahului	49	134,283
Lahaina	5	1,187
Wailuku	29	20,358
Remainder of county	5	(D)

D Withheld to avoid disclosing data for individual companies.

Source: U.S. Bureau of the Census, 1977 Census of Wholesale Trade, WC77-A-12, table 7.

Table 469.-- SELECTED SERVICE INDUSTRIES, BY KIND OF BUSINESS: 1977

Kind of business	Number of establishments	Receipts ($1,000)
Selected service industries	8,023	1,276,163
Hotels, motels, trailering parks, and camps	240	548,829
Personal services	1,927	83,249
Business services	2,351	173,440
Automotive repair, services, and garages	864	164,276
Miscellaneous repair services	587	34,425
Amusement and recreation services, including motion pictures	961	87,670
Dental laboratories	52	4,452
Legal services	506	68,671
Engineering, architectural, and surveying services	535	111,151

Source: U.S. Bureau of the Census, 1977 Census of Service Industries, SC77-A-12, table 1.

Table 470.-- SELECTED SERVICE INDUSTRIES FOR COUNTIES AND URBAN PLACES: 1977

(Includes hotels, motels, personal services, business services, automotive repair, services, and garages, miscellaneous repair services, amusement and recreation services, including motion pictures, dental laboratories, legal services, and engineering, architectural, and surveying services.)

County and urban places	Number of establishments	Receipts ($1,000)
State total	8,023	1,276,163
Hawaii County	797	133,601
Hilo	411	48,568
Remainder of county	386	85,033
Honolulu County	6,214	963,452
Aiea	132	6,144
Honolulu	4,683	883,257
Kailua	304	11,143
Kaneohe	212	9,563
Pearl City	106	3,755
Wahiawa	128	4,742
Waipahu	143	7,648
Remainder of county	506	37,200
Kauai County	340	56,421
Kapaa	75	7,983
Lihue	113	28,618
Remainder of county	152	19,820
Maui County	672	122,689
Island of Lanai	8	(D)
Island of Molokai	37	2,990
Kahului	121	26,717
Lahaina	136	53,983
Wailuku	175	13,438
Remainder of county	195	(D)

D Withheld to avoid disclosing data for individual companies.

Source: U.S. Bureau of the Census, 1977 Census of Service Industries, SC77-A-12, table 7.

Table 471.-- SELECTED BUSINESS ESTABLISHMENTS SERVING VISITORS: 1972 AND 1977

Kind of business	Number of establishments		Sales or receipts ($1,000)	
	1972	1977	1972	1977
Retail businesses				
Eating places	1,139	1,356	227,590	433,180
Drinking places (alcoholic beverages)	279	301	33,785	50,918
Camera and photo supply stores	51	58	(D)	15,303
Gift and souvenir shops	219	332	21,486	60,810
Luggage and leather goods stores	7	21	(D)	5,396
Services				
Hotels	187	191	230,972	542,135
Motels, motor hotels, tourist courts	33	45	10,634	6,628
Automobile rental and leasing	103	116	40,196	89,205

(D) Withheld to avoid disclosing data for individual companies.

Source: U.S. Bureau of the Census, 1977 Census of Retail Trade, RC77-A-12, table 2, and 1977 Census of Service Industries, SC77-A-12, table 2.

Table 472.-- HOTEL UNITS AND OCCUPANCY RATES, BY GEOGRAPHIC AREAS: 1967 TO 1979

Year	Number of hotel units, October 1/			Percent of units occupied, annual average 2/		
	State total	Oahu	Neighbor islands	State total 3/	Waikiki	Neighbor islands
1967	18,235	13,004	5,231	85.5	90.0	72.8
1968	21,243	15,138	6,105	83.7	89.2	75.2
1969	25,822	18,209	7,613	77.8	81.3	69.3
1970	30,323	21,217	9,106	71.2	74.1	64.8
1971	35,349	24,612	10,737	60.4	58.9	63.5
1972	35,653	24,441	11,212	68.9	70.0	66.4
1973	37,319	24,969	12,350	77.7	81.5	70.2
1974	39,558	25,352	14,206	77.5	82.0	69.4
1975	40,691	25,699	14,992	74.1	78.3	68.3
1976	44,093	27,099	16,994	76.9	82.6	68.4
1977	46,048	28,083	17,965	77.4	81.2	71.7
1978	48,790	29,294	19,496	79.5	82.1	75.5
1979	51,782	32,088	19,694	73.8	77.1	70.2

1/ Except 1967 (December) and 1968 (November). Includes condominium units in rental pools for transient occupancy.

2/ Data for 1976 and later years omit several major hotels.

3/ Data include Oahu outside Waikiki, not shown separately.

Source: Hawaii Visitors Bureau, Annual Research Report (annual), Visitor Plant Inventory (three times a year), and records.

Table 473.-- HOTEL EMPLOYMENT AND PAYROLL RATIOS: 1970 TO 1980

Year	Hotel units, June 1/	Hotel employment, annual average 2/		Hotel payrolls, annual 2/		
		Total	Per unit	Total ($1,000)	Per unit (dollars)	Per worker (dollars)
1970	27,519	13,613	0.49	66,924	2,432	4,916
1971	33,163	15,550	0.47	78,222	2,359	5,030
1972	35,945	17,619	0.49	93,915	2,613	5,330
1973	37,131	18,857	0.51	107,525	2,896	5,702
1974	39,222	19,139	0.49	115,599	2,947	6,040
1975	39,977	19,885	0.50	128,659	3,218	6,470
1976	42,811	21,130	0.49	155,123	3,623	7,341
1977	46,143	22,313	0.48	175,602	3,806	7,870
1978	48,034	22,548	0.47	195,861	4,078	8,686
1979	51,185	23,735	0.46	218,954	4,278	9,225
1980	55,571	(NA)	(NA)	(NA)	(NA)	(NA)

NA Not available.

1/ Includes condominium units in rental pools for transient occupancy.

2/ For workers covered by the Hawaii Unemployment Security Law.

Source: Hawaii Visitors Bureau, Visitor Plant Inventory (June issues) and Annual Research Report; Hawaii State Department of Labor and Industrial Relations, Employment and Payrolls in Hawaii (annual).

Table 474.-- HOTELS AND OTHER ACCOMMODATIONS, BY GEOGRAPHIC AREAS: 1970 AND 1980

Geographic area	February 1970		June 1980		
				Units	
	Visitor plants 1/	Units	Visitor plants 1/	Total	Condo 2/
State total ..	275	26,923	393	55,571	11,781
Oahu	152	18,449	162	34,393	4,681
Waikiki 3/	124	16,590	130	30,514	...
Hotels	55	13,825	63	24,468	...
Apartment-hotel	63	2,488	65	5,888	...
Other 4/	6	277	2	158	...
Other Honolulu ...	9	1,105	9	2,475	...
Rest of Oahu	19	754	23	1,404	...
Other islands	123	8,474	231	21,178	7,100
Hawaii	41	3,166	58	6,260	873
Kauai	31	2,565	51	4,435	1,558
Maui	48	2,643	116	9,914	4,353
Molokai	2	89	5	557	316
Lanai	1	11	1	12	-

1/ Hotels, apartment-hotels, motels, cottages, etc.

2/ Condominium units in rental pools for transient use. Included in total units.

3/ Includes Diamond Head and Kahala but not areas ewa and mauka (west and north) of the Ala Wai Canal.

4/ Motels, cottages, etc.

Source: Hawaii Visitors Bureau Visitor Plant Inventory for February 1970 and June 1980.

Table 475.-- HOTEL UNITS, 1979 AND 1980, AND OCCUPANCY RATES, 1978 AND 1979, BY GEOGRAPHIC AREA

Geographic area	Number of units			Percent occupied 1/	
	Feb. 1979 (existing)	February 1980			
		Existing	Planned 2/	1978	1979
State total	49,832	54,246	14,141	(NA)	(NA)
Oahu	30,065	34,334	2,029	(NA)	(NA)
Waikiki and Kahala 3/	26,346	30,443	1,969	82.1	77.1
Ala Moana	1,589	1,725	-	(NA)	(NA)
Central Honolulu	130	67	-		
Airport	691	692	-		
Leeward Oahu	665	613	60		
Windward Oahu	644	794	(NA)		
Hawaii	6,093	5,889	5,198	65.0	62.0
Hilo and Honokaa	1,954	1,954	-	55.4	52.0
Volcano	38	38	-	76.7	75.2
Ka'u	56	53	-		
North and South Kohala	408	407	3,348		
North and South Kona	3,637	3,437	1,850	68.2	65.1
Maui	8,941	9,133	4,524	80.4	73.0
Wailuku and Kahului	445	412	400	85.6	84.3
Lahaina to Napili	5,309	5,357	2,892	82.7	75.8
Kihei and Maalaea	3,084	3,260	1,232	73.6	64.7
Kula, Makawao, and Paia	14	14	-		
Hana	89	90	-		
Kauai	4,202	4,322	2,192	83.3	76.5
Kapaa and Wailua	2,073	2,180	933	85.1	79.9
Lihue	742	894	-		
Poipu and Kukuiula	768	753	783	86.3	79.4
Kalaheo	20	20	-	60.1	45.4
Kokee	11	11	-		
Hanalei	588	464	476		
Molokai	520	557	198	(NA)	(NA)
Lanai	11	11	-	(NA)	(NA)

NA Not available.

1/ Annual averages.

2/ Under construction or announced for future construction. Includes 2,027 to be completed in 1980, 4,142 in 1981, 1,014 in 1982, and 6,958 indefinite. Excludes condominium units.

3/ Occupancy data limited to Waikiki and Diamond Head.

Source: Hawaii Visitors Bureau, Annual Research Report and records.

Table 476.-- HOTEL OCCUPANCY AND ROOM RATES, BY GEOGRAPHIC AREA: ANNUAL AVERAGES, 1978 AND 1979

Geographic area	Percentage of occupancy		Average daily room rate (dollars)		Average daily guest rate (dollars)	
	1978 1/	1979	1978 1/	1979	1978 1/	1979
State	78.53	73.73	38.56	44.41	19.62	22.70
Oahu	80.86	76.08	35.90	41.32	18.47	21.10
Waikiki:						
On beach	84.67	78.21	47.22	53.18	24.39	27.25
Off beach:						
With restaurant ...	78.97	75.37	28.73	32.77	14.67	16.48
Without restaurant.	77.49	69.50	25.65	29.05	12.90	14.92
Other Oahu	81.41	81.34	39.66	47.44	21.20	24.86
Hawaii	63.66	58.60	36.70	41.93	18.58	21.59
Hilo	51.63	44.56	29.90	32.93	15.68	17.42
Kona	69.23	65.49	39.04	44.94	19.54	22.93
Maui	82.81	77.14	47.86	57.10	24.12	29.70
West end	88.06	79.30	49.11	58.64	23.54	28.57
Other Maui	74.05	71.92	45.38	53.01	25.45	33.62
Kauai	84.72	80.62	42.25	47.90	20.64	23.75
East end	83.90	79.73	41.22	47.98	20.50	23.96
South end	89.53	90.43	47.96	47.14	21.34	21.82

1/ Revised.

Source: Harris, Kerr, Forster & Company, Statistics and Trend of Hotel Business in Hawaii (monthly).

Table 477.-- MOTION PICTURE AND TELEVISION PRODUCTION: 1977 TO 1979

Subject	1977	1978	1979
Number of features filmed	63	60	54
Feature films for theater viewing	4	3	6
Feature films for television viewing	5	5	8
Television specials and series 1/	54	50	40
Gross budgets (millions of dollars) 2/	39	45	78.5
Feature films and television specials and series	30	36	63.5
Television commercials and related advertising	9	9	15.0
Expenditures in Hawaii for feature films and television specials and series (millions of dollars)	16	22	35
Tax revenues generated (millions of dollars)	1.51	2.04	3.14
Employment:			
Total	1,265	1,610	2,543
Direct	856	1,091	1,723

1/ Each program in a series counted separately.
2/ Includes post-production costs out of the State.
Source: Hawaii State Department of Planning and Economic Development, Hawaii Film Office, unpublished estimates.

Table 478.-- NUMBER AND GROSS SALES OF LIQUOR LICENSEES, FOR OAHU: 1978 AND 1979

Class of licensee	Licenses in effect, June 30		Gross sales of licensees, year ended June 30 ($1,000)	
	1978	1979	1978	1979
All categories	1,144	1,202	280,065	299,421
Cabarets	35	39	12,666	12,829
Clubs 1/	14	16	1,921	2,455
Dispensers 2/	623	647	106,081	103,583
Retailers 3/	427	450	63,551	71,778
Wholesalers	23	24	89,315	99,578
Manufacturers	5	4	5,773	1,104
Tour or cruise vessel ...	14	17	678	702
Vessel	3	-	80	-
Hotel	-	5	-	7,392

1/ Private.
2/ Bars, restaurants, etc.
3/ Package goods stores, including supermarkets, drug stores, etc.
Source: City and County of Honolulu, Department of Finance, Liquor Commission.

Table 479.-- LIQUOR AND TOBACCO TAX BASES: 1978 AND 1979

[Wholesale value, in thousands of dollars. Excludes sales on military bases.]

Year 1/	Liquor tax base 2/	Tobacco tax base
1978	93,560	28,082
1979	88,859	31,020

1/ Calendar year in which reported; data accordingly refer in general to liquor and tobacco sales for 12-month periods ended November 30.

2/ Decline in 1979 caused by exclusion of data for distributors legally contesting the State liquor tax law.

Source: Hawaii State Department of Taxation, "Liquor Tax Base, Collections and Permits; Tobacco Tax Base, Collections and Licenses" (annual release).

Table 480.-- APPARENT CONSUMPTION OF DISTILLED SPIRITS: 1969 TO 1978

(Figures based on shipments to wholesalers.)

Year	Total (1,000 wine gallons)	Per capita 1/ (wine gallons)
1969	1,403	1.80
1970	1,386	1.73
1971	1,200	1.45
1972	1,481	1.72
1973	1,809	2.03
1974	1,947	2.14
1975	1,970	2.12
1976	2,024	2.13
1977	2,095	2.16
1978	2,200	2.22

1/ Based on estimated de facto population.

Source: Distilled Spirits Council of the United States, Annual Statistical Review 1978, Distilled Spirits Industry (1980), p. 42.

Table 481.-- ALCOHOL BEVERAGE CONSUMPTION AND REVENUES, BY TYPE OF BEVERAGE: 1977

Type of beverage	Consumption		State and county revenues	
	Total (1,000 gal.)	Per capita 1/ (gal.)	Total 2/ ($1,000)	Per gallon (dollars)
All alcohol beverages ..	28,486	29.3	24,775	0.87
Distilled spirits	2,095	2.2	10,076	4.81
Wine	1,901	2.0	1,786	0.94
Beer	24,490	25.2	12,913	0.53

1/ Based on estimated de facto population (970,600). The corresponding national per capita amounts were 2.0 gal. for distilled spirits, 1.8 for wine, and 22.7 for beer.

2/ Includes county license fees ($1,828,000), general excise tax for retailing ($5,248,000) and wholesaling ($431,000), and ad valorem liquor tax ($17,268,000).

Source: Distilled Spirits Council of the United States, Inc., 1977 Public Revenues from Alcohol Beverages (1980), pp. 16, 20, and 33.

Section 24

FOREIGN AND INTERSTATE COMMERCE

This section includes data on the flow of goods, services, and capital between Hawaii and the rest of the world, with particular emphasis on trade and investment involving foreign countries.

Imports to Hawaii from foreign nations rose from $171 million in 1969 to $1.3 billion in 1979. Exports to foreign countries amounted to only $46 million in 1969, but by 1979 exceeded $176 million. (These figures, it should be noted, refer to merchandise imports and exports through the Honolulu Customs District. They do not necessarily represent exports of commodities originating in Hawaii, nor imports for direct consumption within the State.)

Trade with the Mainland United States has similarly risen in the past decade. Merchandise received from the Mainland increased from $822 million in 1967 to $2.0 billion in 1977. Merchandise exported to the Mainland rose from $325 million in 1967 to $817 million in 1974, then slipped back to $471 million in 1977.

Among the foreign nations, Hawaii's leading trading partners in 1978 were Indonesia for imports and Australia for exports. Imports from Indonesia amounted to $247 million, or 22 percent of the total, while exports to Australia reached $43 million or 33 percent of all foreign exports. The Indonesian imports consisted mostly of crude oil.

Honolulu Foreign Trade Zone No. 9 handled merchandise valued at $34.9 million in fiscal 1979. Merchandise handled by Subzone No. 9A, the PRI refinery, was valued at $863 million, almost all of it in petroleum and petroleum products.

Foreign-owned U.S. firms in Hawaii operated 138 establishments in 1976, and employed 7,729 persons with an annual payroll of $71 million. Out of 39,782 hotel rooms in the State as of July 1978, 8,381 (or 21.1 percent) were foreign owned.

Sources for statistics on interstate and foreign commerce include the U.S. Bureau of the Census (for foreign trade), the Bank of Hawaii (for interstate trade and balance of payments), Foreign Trade Zones No. 9 and 9A, the Hawaii International Services Agency, and recent studies of Foreign Investment in Hawaii and Selected Characteristics of Foreign-Owned U.S. Firms issued by the U.S. Department of Commerce. Further information appears in cargo data by origin and destination, compiled by the Army Corps of Engineers and cited in Section 18.

Comparable data for the nation as a whole appear in Section 31 of Statistical Abstract of the United States: 1979. Long-term Island trends are summarized in Historical Statistics of Hawaii, Section 21.

Table 482.-- INTERSTATE TRADE: 1968 TO 1978

(In millions of dollars)

Year	Imports	Exports
1968	886.7	329.1
1969	1,029.1	321.7
1970	1,194.1	339.8
1971	1,201.4	365.7
1972	1,220.0	350.2
1973	1,563.5	381.8
1974	1,866.2	817.0
1975	1,773.9	522.4
1976	1,756.3	415.2
1977	1,982.7	471.0
1978 1/	2,185.5	494.7

1/ Preliminary.

Source: Bank of Hawaii, Hawaii 80 (August 1980), p. 44. Compiled from reports of major shippers and carriers, for commodities moving between Hawaii and the Mainland.

Table 483.-- FOREIGN TRADE THROUGH THE HONOLULU CUSTOMS DISTRICT: 1969 TO 1979

(Value, in millions of dollars, of U.S. imports and exports entered or exported through the Honolulu Customs District. The data may include imports intended for consumption on the Mainland and exports originated on the Mainland.)

Year	General imports 1/	Imports for consumption 1/	Exports of foreign and domestic merchandise 2/
1969	171.0	167.3	46.4
1970	174.7	167.4	51.2
1971	223.6	215.5	46.3
1972	244.3	227.5	60.4
1973	340.1	304.9	72.8
1974	645.3	605.5	115.2
1975	784.4	757.6	95.7
1976	915.1	876.5	66.2
1977	1,038.2	988.1	98.3
1978	1,184.5	1,126.4	137.8
1979	1,334.6	1,238.5	176.1

1/ Customs value basis. Excludes vessels under their own power or afloat and shipments valued under $251.

2/ Totals are on f.a.s. (free alongside ship) basis.

Source: U.S. Bureau of the Census, U.S. Foreign Trade: Highlights of Exports and Imports, FT 990 (through 1973) Highlights of U.S. Export and Import Trade, FT 990 (1974 and later), cumulative totals in December issues.

Table 484.-- FOREIGN TRADE THROUGH THE HONOLULU CUSTOMS DISTRICT, BY METHOD OF TRANSPORTATION: 1979

(See headnote to preceding table.)

Category and method of transportation	Value 1/ (million dollars)	Shipping weight (million pounds)
General imports, all methods 2/	1,334.6	(NA)
Vessel	785.9	7,854.6
Air	443.6	15.9
Imports for consumption, all methods 3/	1,238.5	(NA)
Exports, all methods 2/	176.1	(NA)
Vessel	45.3	503.5
Air	51.7	13.1

NA Not available.

1/ Customs value basis for imports; f.a.s. (free alongside ship) value basis for exports. See source for definitions.

2/ Includes categories not tabulated by method of transportation, not shown separately.

3/ Not available by method of transportation.

Source: U.S. Bureau of the Census, Highlights of U.S. Export and Import Trade, FT 990, December 1979, table E-4 (p. 41) and I-14 (pp. 128-129).

Table 485.-- FIREWORKS IMPORTED INTO THE HONOLULU CUSTOMS DISTRICT: 1973 AND 1978

Year	Pounds	Value (dollars)
1973	646,963	754,522
1978	1,280,027	1,590,006

Source: U.S. Bureau of the Census, Foreign Trade Statistics, IA 253 (annual tabulations).

Table 486.-- IMPORTS AND EXPORTS, BY GEOGRAPHIC AREA FOR THE HONOLULU CUSTOMS DISTRICT: 1978

(In dollars. Includes all trade through the Honolulu Customs District, and thus may include imports intended for consumption on the Mainland or exports originated on the Mainland.)

Geographic area	Imports for consumption	Exports of domestic merchandise
All areas	1,125,325,713	130,043,315
Regions:		
North America	58,270,625	3,581,824
South America	19,494,680	713,555
Europe	46,093,797	12,556,681
Africa	5,593,845	360,144
Asia	958,608,205	52,158,150
Australia and Oceania	37,264,561	60,672,961
Nations: 1/		
Australia	12,517,573	42,755,891
Bahamas	31,620,792	20,470
Brunei	104,032,994	-
Canada	16,660,996	3,108,978
Federal Republic of Germany	18,764,949	4,088,704
French Polynesia	116,409	3,208,797
Hong Kong	21,009,023	12,521,007
Indonesia	246,609,276	93,763
Japan	200,315,688	24,715,247
Korea	7,513,691	3,804,639
Malaysia	60,874,952	173,899
Netherlands	1,692,421	7,362,831
New Zealand	13,217,816	3,170,160
Oman	42,111,132	-
Philippines	10,770,256	5,451,525
Republic of China (Taiwan)	81,281,053	1,708,756
Singapore	164,339,067	2,470,747
Trust Territory of the Pacific Is.	344,995	10,103,899

1/ Shown separately for the nine leading import sources (over $20,000,000) and twelve leading export destinations (over $2,000,000).

Source: U.S. Bureau of the Census, U.S. Imports for Consumption and General Imports, Customs District by Country of Origin ... (IA 254) and U.S. Exports, Customs District of Exportation by Country of Destination ... (EA 663).

Table 487.-- MANUFACTURED EXPORTS, 1960 TO 1976, AND AGRICULTURAL EXPORTS, 1968 TO 1977

Subject	Amount
MANUFACTURED EXPORTS	
Export value (million dollars):	
1960	17
1972	26
1976	51
Export value as percent of total manufacturing production, 1976	2.7
Employment related to exports, 1976:	
Estimated number	500
Percent of total employment	2.0
AGRICULTURAL EXPORTS	
Export values (million dollars; fiscal years):	
1968	16
1972	17
1977	59
Export value as percent of farm sales, fiscal 1977	18.0

Source: U.S. Department of Commerce, Industry and Trade Administration, Hawaii Exports (1978), pp. 4, 5, 10, and 11.

Table 488.-- FOREIGN TRADE ZONE NO. 9 AND SUBZONE NO. 9A OPERATIONS: 1968 TO 1979

Fiscal years 1/	Foreign Trade Zone No. 9 2/					
	Firms using zone	User employment at zone	Value of mdse. ($1,000)		Revenue (dollars)	Expenditures (dollars)
			In/out	Exports		
1968 ...	82	42	6,279	498	88,060	122,718
1969 ...	94	56	10,079	1,187	120,990	122,628
1970 ...	124	65	11,682	1,850	160,438	156,424
1971 ...	138	57	17,363	3,147	206,159	193,450
1972 ...	132	58	20,648	2,895	296,605	236,683
1973 ...	140	83	23,377	2,775	323,866	316,724
1974 ...	139	113	25,394	6,140	410,939	380,835
1975 ...	148	131	29,798	6,317	536,475	488,838
1976 ...	179	139	24,396	4,576	575,007	523,331
1977 ...	205	145	25,702	3,956	797,793	704,043
1978 ...	191	193	29,095	4,395	937,625	676,665
1979 ...	204	221	34,928	4,450	677,834	701,061

Fiscal years 1/	Subzone No. 9A 3/				
	User 4/ employment at subzone	Merchandise, in/out		Exports	
		1,000 short tons	Value ($1,000)	1,000 short tons	Value ($1,000)
1968 ...	...	...	...	...	...
1969 ...	...	...	...	...	...
1970 ...	...	...	...	...	...
1971 ...	...	...	...	...	...
1972 ...	45	453.0	9,300	41.1	1,106
1973 ...	73	3,250.0	76,760	1,178.1	33,614
1974 ...	95	3,046.8	156,454	564.0	52,436
1975 ...	(NA)	3,794.6	340,996	707.1	72,003
1976 ...	159	5,755.7	534,023	815.2	80,719
1977 ...	156	6,349.6	608,815	893.2	83,134
1978 ...	139	6,837.5	705,711	1,178.5	117,247
1979 ...	149	6,507.8	862,559	1,070.1	149,646

NA Not available.

1/ Ended June 30, 1968 to 1976, and September 30, 1977 to 1979.

2/ Began operation June 15, 1966.

3/ Began operation April 7, 1972.

4/ Full-time users only.

Source: Hawaii State Department of Planning and Economic Development, Foreign-Trade Zone No. 9., records.

Table 489.-- CHARACTERISTICS OF ESTABLISHMENTS OF FOREIGN-OWNED U.S. FIRMS IN HAWAII: 1975 AND 1976

Kind of establishment and year	Firms	Establishments	Employment 1/	Payroll ($1,000)	
				First quarter	Annual
All foreign-owned firms:					
1975 2/	39	123	7,111	14,497	57,340
1976	42	138	7,729	17,809	70,894
Manufacturing:					
1975	...	8	560	...	8,062
1976	...	7	578	...	8,746
Nonmanufacturing:					
1975	...	115	6,551	...	49,278
1976	...	131	7,151	...	62,148

1/ For week containing March 12.

2/ Based on preliminary 1975 data for all multiestablishment firms with 50 or more employees in Hawaii, these foreign-owned firms accounted for 3.2 percent of the establishments, 5.6 percent of the employment, and 4.5 percent of the annual payroll.

Source: U.S. Bureau of the Census, Selected Characteristics of Foreign-Owned U.S. Firms: 1975-1976, Series FOF, No. 1 (November 1978), tables 6, 7, and 9.

Table 490.-- FOREIGN DIRECT INVESTMENT IN HAWAII, BY COUNTRY AND INDUSTRY: 1976

County and industry	Number of investors	Assets ($1,000)	Gross income ($1,000)	Number of employees	Wages ($1,000)
Total	399	1,757,861	617,961	13,897	130,502
Country:					
Australia	21	20,153	3,644	219	(D)
Canada	53	76,962	37,618	661	7,222
Hong Kong	41	172,566	93,954	2,050	23,329
Indonesia	3	244,490	18,934	(D)	(D)
Japan	234	1,166,523	251,937	9,085	76,916
Netherlands	2	15,850	92,226	(D)	(D)
Netherlands Antilles ...	2	27,730	108,261	(D)	(D)
Other countries	43	33,587	11,387	(D)	(D)
Industry:					
Wholesale trade	58	55,559	166,844	742	10,103
Retail trade	63	74,975	170,499	(D)	(D)
Banking	5	869,504	59,568	1,236	12,866
Real estate	118	223,994	21,314	242	3,071
Hotels	22	285,807	85,321	5,231	39,577
Other industries	133	248,022	114,415	(D)	(D)

D Figure withheld to avoid disclosure of information on individual firms.

Source: U.S. Department of Commerce, Office of Foreign Investment in the United States, and Hawaii State Department of Planning and Economic Development, Hawaii International Services Agency, Foreign Investment in Hawaii (December 1979), pp. 57-58.

Table 491.-- AGRICULTURAL LAND HOLDINGS OF FOREIGN OWNERS: 1979

Subject	Amount
Privately owned agricultural land (1,000 acres)	1,992
Foreign owned (acres)	14,287
Percent foreign owned 1/	0.72

1/ The percent for Hawaii ranked second among the 50 States, exceeded only by Nevada (1.7 percent) and well above the national average (0.22).

Source: U.S. Department of Agriculture, Economics, Statistics, and Cooperatives Service, Foreign Ownership of U.S. Agricultural Land, Agricultural Economic Report No. 447, p. 4.

Table 492.-- HOTEL ROOMS, BY LOCATION OF OWNERS AND SIZE OF HOTEL: JULY 1978

Location of hotel owners 1/	All hotel rooms	Rooms in hotels with -- 1 to 99 rooms	Rooms in hotels with -- 100 or more rooms
All owners	39,782	3,177	36,605
Hawaii	21,895	2,175	19,720
Mainland U.S.	9,506	432	9,074
Japan	6,778	155	6,623
Canada	476	158	318
Hong Kong	430	60	370
Korea	300	-	300
Taiwan	200	-	200
Unknown	197	197	-

1/ For corporations or huis, refers to location of headquarters.

Source: First Hawaiian Bank, Research Division, "Hotel Ownership in Hawaii," Economic Indicators, September 1978, and records.

Table 493.-- CUMULATIVE FOREIGN INVESTMENT IN HAWAII, BY COUNTRY OF ORIGIN AND COUNTY AND TYPE OF INVESTMENT: 1959 TO MARCH 1980

(In thousands of dollars. Based on incomplete information.)

Subject	Amount
All foreign investments	767,470
Country of origin:	
Australia	48,850
Canada	158,820
Hong Kong	72,100
Japan	434,150
Korea, South	9,500
Taiwan	13,500
Other countries	30,550
County of investment:	
Honolulu	637,470
Hawaii	71,900
Kauai	-
Maui	58,100
Type of investment:	
Retail stores	49,650
Hotels 1/	251,700
Golf courses	17,300
Restaurants	7,150
Insurance portfolios	42,300
Real estate	306,020
Agriculture	54,200
Other types	39,150

1/ At the time of the survey, Hawaii had 25 foreign-owned hotels, with a total of 10,032 units. Japanese owners accounted for 17 hotels and 7,814 units; Canadians, for 4 hotels with 907 units; and all other countries, for 4 hotels and 1,311 units.

Source: Hawaii State Department of Planning and Economic Development, Hawaii International Services Agency (HISA), data supplied June 10, 1980.

Table 494.-- BALANCE OF PAYMENTS: 1975 TO 1978

(In millions of dollars. Excludes capital movement items such as the flow of investment funds, deposits of financial institutions, loans and repayment of loans, securities, and currency.)

Category	1975	1976	1977	1978
EARNINGS BY HAWAII FROM OVERSEAS				
Total earnings	4,351	4,632	5,381	6,048
Commodity exports	616	481	569	632
Federal expenditures	1,979	2,186	2,381	2,559
Services performed	1,543	1,711	2,141	2,515
Return on overseas investments	213	254	290	342
EXPENDITURES BY HAWAII TO OVERSEAS				
Total expenditures	4,864	4,961	5,635	6,267
Commodity imports	2,558	2,671	3,025	3,370
Payments to Federal government	1,215	1,118	1,301	1,425
Services performed	779	827	929	1,041
Return on investments in Hawaii	312	345	380	431

Source: Bank of Hawaii, Hawaii 80, Annual Economic Review (August 1980), p. 44. Based on data from a variety of private and governmental sources, including published reports, interviews, answers to letters, and related procedures.

BIBLIOGRAPHY

This volume is the fourteenth in a series published by the Hawaii State Department of Planning and Economic Development and its predecessor agencies. The first was *Statistical Abstract of Hawaii, 1962*, issued by the Department of Planning and Research in 1962. After a four-year hiatus, updated versions titled *The State of Hawaii Data Book* were published by the Department of Planning and Economic Development in 1967, 1968, and annually beginning in 1970. Most of the volumes issued prior to the present edition are now out of print, but copies can be consulted in the DPED Library, Hawaii State Library, University of Hawaii and community college libraries, Honolulu Municipal Reference Library, and other collections throughout the State.

Additional information regarding specific statistical sources can be found in the introductory statements to each section of the *Data Book*, in footnotes and source references to the various tables, and in other DPED publications. Three of these DPED reports cover statistical sources in considerable detail: *Statistics in Hawaii: 34 Papers Prepared for the Hawaii Statistical Reporting System Workshop, February 18-20, 1970, at Waikiki* (1970), *Proceedings of the Conference on Socio-Environmental Indicators, March 15-17, 1971, Honolulu, Hawaii* (1971), and *Inventory of Hawaii Planning Information* (1973). The first two are reports of statistical symposia. The third is a 164-page reference work prepared for the Hawaii Urban Planning Information Center, containing detailed geographic and subject-matter indexes and source listings. These reports are now out of print, but copies can be consulted in most Hawaii libraries.

Although most of the series in the *Data Book* are shown only for recent years, earlier figures in many cases can be found in *Historical Statistics of Hawaii*, by Robert C. Schmitt. This book, published by the University Press of Hawaii in 1977, contains 711 pages of narrative and tables on the development of statistics in Hawaii since the 18th century. Copies are available from the University Press and various book stores for $25.00.

Another useful publication is *Statistical Sources in Hawaii: Reference Guide to Materials Available at the Hawaii State Library*, compiled by Masae Gotanda and published by the Office of Library Services of the Hawaii State Department of Education in November 1978.

Privately published works of general statistical reference include *Hawaii Facts and Figures* and *All About Business in Hawaii*. *Hawaii Facts and Figures* is a publication of the Chamber of Commerce of Hawaii, first issued (under a different title) more than forty years ago. The most recent edition appeared early in 1980, with statistics through 1979; copies are available from the Chamber for $2.00. *All About Business in Hawaii*, 1980 Edition, is the eighth in an annual series published by Crossroads Press. The current edition costs $2.95.

Two other privately published reports containing useful statistics are the annual economic reviews of the two largest banks in the State. The current editions are Hawaii '80, published by the Bank of Hawaii in August 1980, and Hawaii in 1979, issued by the First Hawaiian Bank as a supplement to its monthly Economic Indicators for April 1980. Greater detail appears in Hawaii's Economic Indicators: Sources, Definitions, and Trends, published by the First Hawaiian Bank in March 1980.

The County of Hawaii, Department of Research and Development, has published its own County of Hawaii Data Book 1979, presenting 256 pages of statistics for the Big Island. This report, dated September 1979, was released in March 1980.

A similar report for Kauai, County of Kauai's Statistical Review: An Annual Report of the County's Economic Indicators, is issued by the Kauai Office of Economic Development. The most recent edition, presenting data for 1979, was released in May 1980 and contains 15 pages of tables.

Persons interested in comparisons between Hawaii and other States or the nation as a whole should consult the Statistical Abstract of the United States and its companion volume, the County and City Data Book. The Abstract is an annual publication of the U.S. Bureau of the Census, initiated in 1878. The current edition is the 100th, dated 1979; copies are available for $12.00 (cloth) or $9.00 (paper) from the Superintendent of Documents, U.S. Government Printing Office, Washington, D. C. 20402. The County and City Data Book, most recently issued for 1977, is sold by the same agency for $19.50. Both volumes are on the shelves of most libraries.

Table A.-- PRINTING HISTORY OF THE STATE OF HAWAII DATA BOOK: 1962 TO 1979

Edition	Number of pages	Number of tables	Price (dollars)		Printing costs (dollars)	Number of copies printed
			Hawaii	Outside State		
1962 1/	128	243	1.00	1.00	(NA)	(NA)
1967	66	95	(NA)	(NA)	1,969.45	3,000
1968	69	99	1.00	1.00	2,969.20	3,000
1970	136	135	1.00	1.00	2,470.92	2,030
1971	159	152	2.00	2.00	4,149.60	2,000
1972 2/	227	210	4.00	5.00	6,245.00	3,000
1973	290	261	4.00	5.00	6,309.00	1,500
1974	306	291	4.00	5.00	9,330.00	2,000
1975	302	308	4.00	5.00	10,222.95	2,000
1976	312	334	4.00	5.00	9,901.13	2,000
1977	339	372	4.00	5.00	11,990.00	2,000
1978	379	422	4.00	5.00	8,900.00	2,000
1979	405	447	4.00	5.00	10,744.00	2,500

NA Not available.

1/ The 1962 edition was titled Statistical Abstract of Hawaii, 1962. In addition, a 41-page, 57-table supplement, Historical Statistics of Hawaii, 1778-1962, was published and distributed without extra charge to persons receiving the regular edition.

2/ A 19-page supplement, State of Hawaii Census Tract Maps and Directory of Hawaii Map Sources, was included with each copy of the regular edition, and was not sold separately.

Source: DPED records.

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